

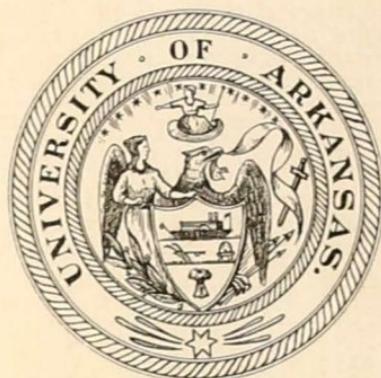
# CATALOGUE

OF THE

# UNIVERSITY OF ARKANSAS.

TWENTY-SIXTH EDITION.

UNIVERSITY OF ARKANSAS  
LIBRARY



(UNIVERSITY POSTOFFICE, FAYETTEVILLE, ARK.).

1898-'99.

1899.

1900.

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
JANUARY.							JULY.							JANUARY.						
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## CALENDAR, 1899-1900.

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### FAYETTEVILLE.

1899.

SEPTEMBER 20, WEDNESDAY—First term begins.

SEPTEMBER 20-23—Entrance examinations.

NOVEMBER 30, THURSDAY—Thanksgiving, a holiday.

1900.

JANUARY 26, FRIDAY—First term examinations begin.

FEBRUARY 3, SATURDAY—First term ends.

FEBRUARY 5, MONDAY—Second term begins.

MAY 30, WEDNESDAY—Decoration day, a holiday.

JUNE 7, THURSDAY—Second term examinations begin.

JUNE 4, MONDAY (?)—Decoration day, a holiday.

JUNE 17, SUNDAY—Baccalaureate sermon.

JUNE 21, THURSDAY—Annual commencement.

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### MEDICAL DEPARTMENT, LITTLE ROCK.

1899.

OCTOBER 12, THURSDAY—Regular session begins.

1900.

APRIL 12, THURSDAY—Session ends.

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### LAW DEPARTMENT, LITTLE ROCK.

1899.

OCTOBER 2, MONDAY—Fall term begins.

1900.

JANUARY 29, MONDAY—Fall term ends.

JANUARY 30, TUESDAY—Spring term begins.

MAY 31, THURSDAY—Spring term ends.

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### BRANCH NORMAL COLLEGE, PINE BLUFF.

1899.

SEPTEMBER 5, TUESDAY—Session begins.

1900.

JUNE 1, FRIDAY—Session ends.

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PRESIDENT OF THE UNIVERSITY,  
DIRECTOR OF THE STATION.

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- 2 ALBERT ERNEST MENKE, D. Sc., F. C. S., PH. D., 2  
*Professor of Chemistry and Physics.*
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*Professor of Mathematics and Astronomy.*
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- 1.5 WILLIAM NATHAN GLADSON, M. S., E. E., PH. D., 1.4  
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*Professor of Geology and Mineralogy and Curator of the Museum.*
- 1.5 JOHN TURNER STINSON, B. S., 1.5  
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- 1.5 CLIFFORD LEWIS NEWMAN, B. S., 1.5  
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- 2 JAMES WALTER FERTIG, PH. D., 1.5  
*Professor of History.*
- 2 JUNIUS JORDAN, A. M., LL. D., 2  
*Professor of Philosophy and Pedagogics.*
- 2 ERNEST TAYLOR BYNUM, PH. D., 2  
*Professor of English and Modern Languages.*
- 2 CHARLES EDWIN HOUGHTON, A. B., M. M. E., 2  
*Professor of Mechanical Engineering and Superintendent of Mechanic Arts.*

26.5

27.1

26.5 6

University of Arkansas.

27.1

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*Associate Professor of Chemistry and Physics.*

1 HADGE DAVIES, A. B., 1  
*Associate Professor of English and Modern Languages.*

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*Associate Professor of Mathematics.*

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*Principal of the Preparatory Department.*

1.6 WILLIAM ALFRED ROSS, B. A., 1.6  
*Acting Professor of Military Science and Tactics, and  
Commandant.*

34.1

35.2 INSTRUCTORS AND OFFICERS.

9 \_\_\_\_\_ 9  
*Instructor in Elocution.*

9 MACK MARTIN, B. M. E., 9  
*Assistant Superintendent of Mechanic Arts.*

1 CLARA EARLE, B. A., 1  
*Instructor in English and Modern Languages.*

8 BURTON NEILL WILSON, B. Sc., M. E., 8  
*Instructor in Woodworking and Foundry.*

4 E. L. BUSCH, 4  
*Musical Director.*

ELIZABETH BUSCH,  
*Piano.*

2 GERTRUDE CRAWFORD, 2  
*Instructor in Vocal Music.*

JENNY DELONY-RICE,  
*Director of the Art Department.*

3.5

Faculty.

7

- 8 GEORGE ALBERT COLE, A. M., 8  
*Instructor in Mathematics and Science.*
- 6 CENER HOLCOMB, A. B., 6  
*Instructor in Latin and Mathematics.*
- 6 NAOMI JOSEPHINE WILLIAMS, A. M., 6  
*Instructor in Latin and History.*
- 6 EMMA WILMER COLE, M. L. L., 6  
*Instructor in History and Mathematics.*
- 6 MARY ANNE DAVIS, 6  
*Instructor in English and History.*
- 7 LINA REED, A. B., 7  
*Instructor in English and Latin.*
- 5 SUSIE H. SPENCER, L. I., 5  
*Librarian.*
- JULIA WATKINS,  
*Superintendent of Dormitories.*

17 Practical Engineers. 7

6 Farmer  
6 Secondary

3 Occupied

44.4  
45-9

AT LITTLE ROCK.

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*Professor of General, Descriptive and Surgical Anatomy,  
and President of the Faculty.*
- JAMES H. SOUTHALL, M. D.,  
*Professor of the Practice of Medicine.*
- ROSCOE G. JENNINGS, M. D.,  
*Professor of Clinical Surgery and Dermatology.*
- CLAIBORNE WATKINS, M. D.,  
*Professor of Physical Diagnosis and Clinical Medicine.*

- JAMES H. LENOW, M. D.,  
*Professor of Diseases of the Genito-Urinary Organs.*
- L. P. GIBSON, M. D.,  
*Demonstrator of Anatomy and Adjunct Professor of Anatomy.*
- LOUIS R. STARK, M. D.,  
*Professor of Gynecology.*
- E. R. DIBRELL, M. D.,  
*Professor of Physiology.*
- W. H. MILLER, M. D.,  
*Professor of Obstetrics.*
- FRANK VINSONHALER, M. D.,  
*Professor of Ophthalmology and Otology.*
- T. N. ROBINSON, M. D.,  
*Professor of Medical Chemistry and Toxicology.*
- F. L. FRENCH, M. D.,  
*Professor of Materia Medica, Therapeutics, Hygiene and Botany.*
- S. H. KEMPER, M. D.,  
*Professor of Surgical Pathology and Bacteriology.*
- CARL E. BENTLEY, M. D.,  
*Adjunct Professor of Clinical Surgery.*
- ANDERSON WATKINS, M. D.,  
*Assistant Demonstrator of Anatomy.*
- WILLIAM A. SNODGRASS, M. D.,  
*Assistant to Chair of Anatomy.*
- FREDERICK W. DORTCH, M. D.,  
*Adjunct Professor of Chemistry.*

JAS. H. LENOW, M. D.,  
*Secretary of the Faculty,*  
LITTLE ROCK, ARK.

**LAW DEPARTMENT.**

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MARK VALENTINE,

*Dean.*

*Lecturers:*     $\left\{ \begin{array}{ll} \text{JNO. M. ROSE.} & \text{THOS. B. MARTIN.} \\ \text{JNO. B. JONES.} & \text{W. T. TUCKER.} \\ \text{SAM W. WILLIAMS.} & \text{W. S. McCAIN.} \end{array} \right.$

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**AT PINE BLUFF.**

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**BRANCH NORMAL COLLEGE.**

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**NORMAL DEPARTMENT.**

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*Principal.*

JAMES C. SMITH, A. B.,

*First Assistant.*

THOMAS C. CHILDRESS, L. I.,

*Second Assistant.*

ANNA C. FREEMAN, L. I.,

*Third Assistant.*

LOUISA M. CORBIN,

*Fourth Assistant.*

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*Assistant Superintendent.*

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LORENZO ELLIS,

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AGRICULTURAL EXPERIMENT STATION

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JOHN FRANKLIN MOORE, B. S.,  
*Assistant Chemist.*

GEORGE B. IRBY, B. A.,  
*Assistant Agriculturist at Newport.*

# The University and the State.

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The University is at the head of the public educational system of the State of Arkansas. It seeks to foster the higher educational interests of the State, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its Faculty and Board of Trustees, from year to year, to bring it into still closer articulation with the public schools of the State, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature, science, and the industrial arts, and for the professional studies.

Through the aid received from the United States and from the State of Arkansas, the University is enabled to offer to its students free tuition, except in the studies of Law, Medicine, and Music, and to open wide her doors to all seekers of learning.

The institution was established by virtue of an act of Congress donating public lands for educational purposes, and in accordance with an act of the General Assembly of the State of Arkansas.

## LOCATION.

The University, except its Medical and Law Schools and Branch Normal College, is located at Fayetteville, Washington County, Arkansas. Situ-

ated in the heart of the Ozark Mountains, it is more than 1,500 feet above the sea level. The location is thought to be unsurpassed in salubrity of climate, in beauty of surrounding scenery, in variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south by the Texas branch of the St. Louis and San Francisco Railroad, which has three trains daily each way, and various connections with other roads both north and south.

## BUILDINGS.

**University Hall.** This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above

the basement. It consists of a front building 214 feet in length, and two wings, each 124 feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, Chapel, Library and Reading Room, separate Study Halls for the boys and girls of the Preparatory Department, Armory, Magazine, Band Room, Laboratories for Engineering, Biology and Geology, Music and Art Rooms, President's and Commandant's Offices, Natural History Museum, Examination Hall, Literary Society Halls, Toilet Rooms, etc., in all, seventy rooms, together with broad corridors and stairways. The building is heated by steam, lighted by elec-

tricity, and supplied with water from the city waterworks.

**Science Hall.** This building, designed especially for the departments of Chemistry and Physics, was erected in 1893; it is a substantial two-story brick building, 50 by 60 feet. On the first floor are the lecture rooms of the two departments, the physical laboratory and storeroom, and also the private laboratory of the professor in charge. On the second floor are the chemical laboratories, including a laboratory for general chemistry, a laboratory for qualitative analysis, and a laboratory devoted to quantitative analysis; also a storeroom for chemical supplies, a weighing room, and a hallway. The building is supplied with gas, water, and steam heat, and with modern appliances for technical work. It will accommodate about 100 students.

**Buchanan Hall.** This is a substantial and handsome brick building, three stories high, and containing over forty rooms. It is favorably located, with a view to the health of the occupants, convenience of access to University Hall, and sightliness of appearance on the grounds. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a wide veranda in front, there are three entrances to the building. There are also two rear entrances, and on the third floor a suite of rooms fitted up for an

Infirmary. Through the generosity of the ladies of Fayetteville, this suite of rooms has been thoroughly equipped. In the rear of the Hall a brick building has been erected which furnishes bath and toilet rooms, supplied with cold and hot water.

**Agricultural Buildings.** The main building of the Agricultural Experiment Station is of brick, one story in height. It contains several offices; the laboratories of the Chemist, the Horticulturist, and the Bacteriologist; the Station Museum, and several commodious store-rooms. Belonging to the Department of Agriculture are a large barn, stock shed, dairy house, and other necessary outbuildings.

**Horticultural Building.** This structure is 60 by 23 feet, is heated by steam, and supplied with improved ventilating apparatus and other modern conveniences. Attached to this is a building 24 by 20 feet, which is designed to be used as a laboratory for plant study. The equipment thus provided furnishes much-needed facilities for study and research to all persons interested in plant life, and especially to students of horticulture.

The building is located north of University Hall, and, together with the improvement of the adjacent grounds, adds much to the sightliness of that part of the campus.

**The Shops.** The shop building is of brick with stone foundation and iron roof, and has a floor space of 8,000 square feet.

It contains a wood room 80 by 40, a foundry 35 by 40, forge shops 32 by 40, a machine shop 40 by 48, and a boiler room 32 by 35. There is also a brick building 15 by 35, divided into two rooms, without communication, one of which is used for an office and the other for the storage of oil and paint; also a frame coal bin 12 by 30, covered with iron and accessible to teams from either side. The new buildings are heated by steam and provided with water from the city waterworks and with fire hose. They will accommodate about 100 students in class work at one time.

### THE LIBRARY.

The Library occupies the north wing of the main building, second floor. It now contains over 7,000 volumes, with numerous pamphlets, maps, charts, etc. Shelves are provided for 14,000 volumes, with room for expansion.

The alcoves are separated from the library hall by an iron railing; and only advanced students are permitted to have direct access to the shelves. The general reference works, however, are outside the railing.

The Dewey decimal system of classification and the Cutter book-numbers are used, thereby simplifying the circulation of books and the general care of the Library.

The leading high class periodicals (including magazines, reviews and various technical monthlies) are regularly taken, and are bound as they accumulate. This vast fund of current literature is rendered more useful and accessible by "Poole's Complete Index" to periodic literature from 1802 to the present time. A number of daily and weekly papers also come to the Library.

Among the works of general reference in the Library are all the best encyclopedias and dictionaries.

The card catalogue in preparation will greatly facilitate reference and will also greatly increase the usefulness and popularity of the Library.

The privileges of the Library are free to all students.

There are also special libraries belonging to various departments, comprising some 1,500 volumes.

### THE ARMORY.

The Armory is a large, well lighted room, 60 by 80 feet, occupying the entire basement of the north wing of the main building. It is substantially fitted up with arm racks, compartments for equipments, and other conveniences. Two adjacent rooms are assigned to the Military Department, and are used as bandroom and storeroom.

The equipment of the department consists of 275 Springfield Cadet Rifles, of the same model as those used at the United States Military Academy

at West Point, 275 sets of infantry equipments, twenty-one cadet swords (West Point pattern), National colors, flags, signal equipment, ammunition, etc., and a superior set of band instruments.

The arms and equipments are furnished the University by the general government. The other equipments have been purchased by the University and belong to the Military Department. The equipment is sufficient for a battalion of 350 cadets.

### THE MUSEUM.

The Museum occupies the fourth floor of the south wing of the main building. Large additions have recently been made to its equipment with a view to facilitate instruction in geology, and also to make it of increased interest to the visiting public. That portion of the collection suitable for display is arranged in glass cases, while the working collection is in drawers. Four new sloping-top cases with drawers beneath have recently been added, thus affording space for several thousand specimens.

*Relief Maps.*—For illustration in geology, and general interest to the public, there have been placed in the Museum the following relief maps : Geological relief maps of the State of Arkansas, Colorado Canon, and the United States ; a convex relief map of the United States on a section of a globe 16 feet in diameter ; a relief map of Carmel Bay, California ; Ice Spring Craters, Utah ; Yosemite Valley, Palestine, Mount Vesuvius, the State of California,

and San Francisco Peninsula. A relief map of a portion of the State of Tennessee is now in preparation.

*The Mineral Collection.*—The mineral collection contains about 2,000 specimens, representing the different mineral groups. Many of these specimens are displayed in cases.

*The Petrographic Collection.*—The most valuable part of this collection consists of the series furnished by the United States Geological Survey, representing sedimentary, igneous and metamorphic rocks. Besides this, there is a valuable collection of building and other stones from different parts of the country.

*The Paleontological Collection.*—There is a large collection of fossils in the Museum, but as they have not yet been arranged and catalogued, the number of specimens cannot be even estimated.

*The Major Earle Collection.*—Major F. R. Earle has deposited in the Museum his private collection of minerals and fossils. This collection was formerly in Cane Hill College.

*The Zoological and Botanical Collection.*—This collection consists of 200 birds and mammals, representing 80 species; 200 reptiles and amphibians, representing 40 species; 1,500 fishes, representing 350 species; 1,000 insects and other invertebrates, representing 200 species; several skeletons.

Donations to the Museum will be gratefully acknowledged, and the donors may be sure that

anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered and destroyed through lack of care or improper handling. The Museum is now prepared to receive collections on deposit, and to preserve and display them under the owner's name until called for.

While our Museum is most important on account of its educational value, it at the same time serves an important purpose in representing the resources of this State.

### THE LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in Chemistry, Mineralogy, Physics, Botany, Zoölogy, Entomology, Horticulture, and in Civil, Mechanical, and Electrical Engineering.

The laboratories for chemical work **Chemical Laboratories.** are four in number and are situated in Science Hall. The Laboratory of General Chemistry is furnished with desks capable of accommodating thirty-five students. Each desk has a cupboard and two drawers, and is provided with gas and water. The Qualitative Laboratory has desks for sixteen students. Each desk is provided with suitable conveniences for taking care of apparatus, and is supplied with all the common reagents. The room is provided with a

hood and other equipments usually found in qualitative laboratories. The Quantitative Laboratory has suitable accommodation for eight students, and beside the usual equipments, a Blake ore crusher and an assay furnace. Adjoining the Quantitative Laboratory is the weighing room, which contains two of Becker's best analytical balances, besides a number of less accurate instruments suitable for weighing large quantities of chemicals. The store-room contains all the apparatus and chemicals. The room is in charge of an assistant, who gives out the supplies and keeps the books. This room contains the apparatus for preparing distilled water, and has also some space for laboratory work.

The Physical Laboratory is a room **Physical Laboratory.** 20 by 40 feet and is provided with large tables suitable for use in performing experiments in General Physics and physical measurements. It has also two pillars built up from the ground and independent of the rest of the building for the accommodation of delicate instruments which would otherwise be disturbed by the vibrations of the floor. The store-room of physical apparatus is supplied with instruments suitable for illustrating the principles of Physics and for the use of students in practical work.

Separate laboratories are provided for **Biological Laboratory.** entomology and systematic zoölogy, systematic botany, and anatomy and histology. The laboratory for entomology and systematic zoölogy contains the private

collection of insects belonging to Professor McNeill and the collection of the University. Very complete apparatus is provided for collecting, drying, preserving, and mounting insects and other animals. The laboratory for systematic botany contains tables for the accommodation of about thirty students. All the apparatus necessary for the collection, mounting, and preservation of plants is supplied in abundance. The laboratory for anatomy and histology is well supplied with microscopes, microtomes and all the apparatus and chemicals necessary for hardening, sectioning, staining and mounting of material for histological work. It is supplied with incubators, sterilizers, and the other apparatus necessary for bacteriological and embryological work. It has also a very complete equipment for anthropometric work; an excellent dark-room, well furnished with the apparatus and material needed in photography and microphotography; models and charts for teaching animal and plant anatomy.

The Geological Laboratory is provided with aneroid barometers, compasses, hand-levels, pedometers, etc., for field work, two petrographic microscopes, and an excellent equipment of drawing apparatus for the construction of geological sections and topographic maps; also, with apparatus for the construction of relief maps.

There is a well-equipped laboratory for Determinative Mineralogy, and a room for the prepara-

tion of relief maps and other work connected with the department of geology.

**Mechanical Engineering Laboratory.** The three boilers used to heat the buildings and run the shops furnish ample facilities for testing the evaporative power of boilers, and the fuel consumption per pound of water evaporated. Comparative tests of feed-pumps and injectors are made. There is a complete set of calorimeters, thermometers, engine counters, engine indicators, measuring tanks, injectors, feed-water heaters, and all necessary apparatus for making engine and boiler tests. A Westinghouse, a Reynolds-Corliss, an ordinary slide-valve, a horizontal and a vertical engine furnish all necessary apparatus for practice in valve setting and examples of steam engines.

An 8 by 10 automatic slide-valve engine, now under construction in the shops, will soon be added to the equipment of the department.

A 60,000-pound Riehle testing machine is used to give the student practice in testing the strength of materials of construction.

**Electrical Laboratory.** The Electrical Laboratory affords excellent facilities for experimental work with practical dynamo-electric machines. In the laboratory will be found the leading types of machines for arc and incandescent lighting, and for power; constant current and constant potential motors and generators,

representative of the different methods of power transmission; a Kelvin balance, standard cells, and a potentiometer for standardizing measuring instruments; Weston and other voltmeters and ammeters; electro-dynamometers; galvanometers of the tangent, reflecting, and Deprez-d'Arsonval types; magnetometers; standard resistance coils and bridges, and absorption dynamometers.

During the past year there have been added two Kelvin voltmeters, a D. C. A. C. polyphase motor-generator, with a large number of smaller pieces of apparatus.

The laboratory has been entirely remodeled, a substantial double floor relaid, and stone foundations provided for all machinery. Two brick piers were built for supporting delicate measuring instruments.

This apparatus enables the student to carry on experimental work of a very wide range, and to attain proficiency in operating and testing electrical machinery and instruments.

Students are also allowed to inspect the plant of the Fayetteville Electric Light and Power Company, and to take measurements and make tests on it. The Electrical Laboratory is connected with their primary mains, and is thus supplied with alternate currents of 2,000 volts potential for experimental work.

**Civil Engineering Laboratory and Equipment.** The Civil Engineering Laboratory is provided with all necessary instruments for work in land, railroad and city surveying. The equipment of field instruments has been selected so as to afford students the opportunity of becoming familiar with the instruments of different manufacturers. Among the usual field instruments there is a number of engineer's transits, theodolite, Y levels, transit with solar attachment, compasses, hand levels, standard and ordinary steel tapes, aneroid barometers, plane table, sextant, etc. During the last year there has also been added for astronomical work and triangulation, a large Altazimuth reading to seconds by levels and micrometers.

**Cement Laboratory.** The equipment for the purpose of testing the strength of mortars and cement, includes one 2,000-pound tensile testing machine, standard consistency apparatus, Vicats's and Gilmore's needles for determining set, metal molds for tension, compression and transverse test-pieces, steaming apparatus for blowing tests, and sieves for fineness.

**Shop Equipment.** The machine shop contains a Westinghouse engine, which runs the machinery in the whole building, a large iron planer, a shaper, four lathes of different sizes and makes, drill press, two grinding machines, milling machine, 60,000-pound testing

machine, and a good supply of hand tools, benches, and materials.

The forge shop contains twelve Buffalo forges with down draft which takes the smoke away through underground pipes, thus avoiding the smoke and dirt of the ordinary blacksmith shop. It also contains a shearing and a punching machine, twelve anvils of different weights, and all the necessary blacksmith tools for the twelve forges.

The wood shop contains one buzz planer, one large cylinder planer, circular saw, band saw, double spindle shaper, mortising and boring machine, five smaller lathes, one 18-inch pattern maker's lathe, and eighteen benches, each equipped with a complete set of carpenter's tools.

The foundry contains one Colliau cupola with a capacity of one and one-half tons of iron per hour, one brass furnace of 150 pounds capacity, a Buffalo pressure blower, and a core oven.

The foundry is well equipped with moulder's tools, flasks, etc.

The boiler room contains two 75-horsepower boilers, one 40-horsepower boiler, feed pump, injectors, feed-water heater, measuring tanks, etc.

The various departments of the shop building afford facilities for giving practical instruction to sixty or seventy students at one time.

Among the facilities for instruction in engineering contained in the equipment of the University in addition to the shop equipment may be mentioned:

A Dean steam pump with air chamber, water

and steam cylinders, and valve chambers sectioned, so that a student may see the working parts.

A Cameron steam pump with the steam cylinder sectioned, showing the valve motion.

A Knowles pump in full working order.

A Blake steam pump in section.

Sections of injectors.

A model of a Stevenson's link motion.

A collection of samples of manufactured articles, such as steam pipe coverings, leather beltings, lubricating oils, etc.

**Drawing Room.** The equipment includes the usual tables and stools; and among the special apparatus and instruments may be mentioned the planimeter, odontograph, slide rule, set of railroad curves, etc. A blue-print room has recently been fitted up with complete facilities for the details of the blue-print process. The room is also provided with photographic facilities which will be used to prepare lantern slides and prints illustrating various branches of engineering.

**Art Room.** A commodious art room has been provided, and furnished with such appliances as are needed for efficient work in that department.

## Conditions of Admission.

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Candidates for admission are urged to be present at the beginning of the session. Admission at a later date is not refused, but is attended with greater or less inconvenience.

Students on their arrival in Fayetteville should report promptly to the President. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

Applicants should present certificates of honorable discharge from the school last attended, or furnish other testimonials of good moral character.

Examinations for admission to the Freshman class will be held in the following subjects:

I. *English.* The admission requirements in English are those of the American Association of Colleges, and most of the leading institutions in the United States. The examination is divided into two parts.

(a) *Reading and Practice.* A few books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of the examination will usually be the writing of a paragraph or two on each of the several topics set in the examination paper. The treatment of these

topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of these books.

The books set for this part of the examination are:

1898-1899—Milton's *Paradise Lost*, Books I and II; Pope's *Iliad*, Books I and XXII; the Sir Roger de Coverly Papers in the *Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Southeby's *Life of Nelson*; Carlyle's *Essay on Burns*; Lowell's *Vision of Sir Launfal*; Hawthorne's *House of the Seven Gables*.

1899-1900—Goldsmith's *Vicar of Wakefield*; Lowell's *Vision of Sir Launfal*; Cooper's *Last of the Mohicans*; Coleridge's *Ancient Mariner*; Hawthorne's *House of the Seven Gables*; Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I, VI, XXII and XXIV; the Sir Roger de Coverly Papers in the *Spectator*; DeQuincey's *Flight of a Tartar Tribe*.

1900-1901—Goldsmith's *Vicar of Wakefield*; Cooper's *Last of the Mohicans*; Lowell's *Vision of Sir Launfal*; Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I, VI, XXII and XXIV; the Sir Roger de Coverly Papers in the *Spectator*; Scott's *Ivanhoe*; DeQuincey's *Flight of a Tartar Tribe*; Tennyson's *Princess*.

(b) *Study and Practice.* Other books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination are:

1898-1899—Shakespeare's *Macbeth*\*; Burke's Speech on Conciliation with America; DeQuincey's *Flight of a Tartar Tribe*; Tennyson's *Princess*. -

1899-1900—Burke's Speech on Conciliation with America; Carlyle's *Essay on Burns*; Shakespeare's *Macbeth*\*; Milton's *Paradise Lost*, Books I and II.

1900-1901—Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison; Shakespeare's *Macbeth*\*; Milton's *Paradise Lost*, Books I and II.

In order to pass this examination, a student must have a good practical knowledge of English Grammar (as much as is contained in Maxwell's English Grammar), and of an elementary Rhetoric such as Raub's, Waddy's or Williams's; and no candidate will be accepted whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

2. *Arithmetic.* The examination will include the whole of some standard arithmetic.

3. *Algebra.* To Simultaneous Quadratic

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\*Julius Cæsar will be accepted.

Equations, with special attention to factoring, the theory of exponents, and radicals. The examination will be taken from Wentworth's Higher Algebra.

4. *Plane Geometry.* The first four books of Phillips and Fisher's Geometry. In 1899 all of Plane Geometry will be required for admission to the Freshman class.

5. *History.* The examination will be taken from Chambers's History of the United States and Barnes's General History.

6. *Geography.* Any complete manual, such as Maury's or Frye's, will give the preparation, if thoroughly mastered. Special attention is given to the geography of the United States and of Arkansas.

7. *Physiology.* Martin's Human Body, briefer course.

8. *Latin.* Collar and Daniell's Beginner's Latin Book; the first twenty-five lessons in Bennett's Latin Composition; Cæser's Gallic War, four books, with questions on grammar and on the subject-matter, military equipment, etc. Lowe and Ewing's Cæsar is recommended. Latin is required for admission in Bachelor of Arts, Bachelor of Philosophy, and Normal courses ; not in the other courses.

Students are advised to come prepared for all the studies in some one class, otherwise, their course is necessarily more or less irregular.

#### ORDER OF EXAMINATIONS FOR ADMISSION.

*Wednesday, September 20.—9 a. m., regis-*

tion of students; 1 to 3 p. m., Geometry; 3 to 4 p. m., Physiology.

*Thursday, September 21.*—1 to 3 p. m., Arithmetic; 3 to 4 p. m., Geography.

*Friday, September 22.*—9 to 12 m., Algebra; 1 to 4 p. m., Latin.

*Saturday, September 23.*—9 to 11 a. m., English Grammar and Analysis; 11 to 12 m., English Composition, Reading; 1 to 2:30 p. m., U. S. History; 2:30 to 4 p. m., General History.

Students living at a distance from the **Examinations** University may obtain special local at other examinations if applied for in due **Places than** time before the beginning of each session. The questions will be sent on

Fayetteville. application to the principal of any school or to any county examiner. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his indorsement that the examination was properly conducted.

The graduates of accredited schools **Admission on** are admitted to the Freshman class **Certificates.** in the University without examination.

In all cases certificates from the principal of the school attended should be presented, containing specific statements of the kind and extent of work done in the studies in which credits are

desired. Blank forms for such certificates will be furnished by the University.

A student who presents a certificate of scholarship from a high school, academy, or college not on the list of accredited schools, is required to take such examinations as may be prescribed. The result of such examinations, together with the certificates, will be passed on and proper credit allowed by the professors of the departments which such student proposes to enter.

**Admission to Advanced Standing.** Candidates for admission to classes in advance of the Freshman will be required to pass satisfactory examinations in the subject previously pursued by the class which they propose to enter. But such candidates coming from colleges or universities of good standing may on the presentation of proper certificates as to the studies pursued be admitted provisionally to such standing and upon such terms as the Faculty may deem equitable in each case.

**Accredited Schools.** On application from the principal of any high school, academy, or other institution, an officer of the University will visit and examine the organization and work of such school. The points to be observed are the subjects included in the course of study, the extent of instruction in each subject, the text-books used, the length of the session, length of the recitation hours, methods of teaching, facilities

for instruction, and the discipline. Upon a favorable report, submitted in writing by the visiting officer, the school is declared by vote of the Faculty duly accredited to the Freshmen class of the University.

Any changes that may occur, especially in the principalship of the school, or in its course of study, should be reported to the President of the University, as the list of accredited schools is subject to yearly revision.

The University earnestly desires to cultivate friendly and harmonious relations with all other educational enterprises of the State, and to add to its list all schools that are doing the required work and that desire to assume the accredited relation.

#### LIST OF ACCREDITED SCHOOLS :

Fort Smith High School, Principal, B. W. Torreyson.

Rogers Academy, Principal, Morrison Weimer.

Little Rock High School, Principal, R. C. Hall.

Marianna Institute, Principal, T. A. Futrall.

Lonoke High School, Principal, — Hamlin.

Pine Bluff High School, Principal, J. H. Witherspoon.

Paris High School, Paris, Tex., Principal, J. G. Wooten.

Hinemon University School, Monticello, Ark., Principal, J. E. Erwin.

Garnett High School, Garnett, Kan., Principal, F. McClellan.

Helena High School, Principal, W. W. Rivers.

Hot Springs High School, Principal, George B. Cook.

Amity High School, Principal, S. M. Samson.

Harrison High School, Principal, C. L. Scott.

Neosho Public School, Principal, J. M. Stephenson.

Paris Academy, Paris, Ark., Principals, G. S. Minmier and John D. Arbuckle.

Dardanelle High School, Principal, J. C. Bunch.

Russellville High School, Principal, J. C. Hamilton,  
Russellville, Ark.

Eureka Springs High School, Principal, C. S. Barnett,  
Eureka Springs, Ark.

Southwestern Academy, Magnolia, Ark., Principal, J.  
W. Cantwell.

Texarkana High School, Principal, Allen Winham.

Hope High School, Principal, R. A. Hearon.

Thompson's Classical Institute, Paragould, Ark., Principals,  
R. S. Thompson and G. R. Hopkins.

Jonesboro Training School, Principal, F. R. Alexander.

Fordyce Training School, Principal, J. D. Clary, Fordyce,  
Ark.

Camden High School, A. D. Carden, Principal, Camden,  
Ark.

Spears-Langford Military Academy, G. S. Storey and  
R. B. Willis, Principals, Searcy, Ark.

Van Buren High School, A. L. Peacher, Principal, Van  
Buren, Ark.

**Selection of Courses of Study.** Students are allowed all reasonable freedom in choosing their courses of study. But they are required to pursue their studies in the order pre-

scribed, and, when candidates for a degree, to complete, as a condition of graduation, all the subjects in the course leading to such degree. Changes in the courses of study selected are discouraged, but for sufficient reasons are allowed if made within three weeks after admission; subsequently no such change can be made during the session except by the express permission of the Faculty.

**Number of Recitations.** Not less than twelve nor more than eighteen recitations or their equivalent per week, exclusive of military science and tactics, are allowed, except by permission of the Faculty. Two hours of laboratory, shop or farm work, drawing or sight-reading, are counted equivalent to one recitation. If less than twelve recitations or their equivalent per week are specified in any course, studies must be elected to make up the deficiency.

**Classification of Students.** The satisfactory completion of the classification work of a class as attested by daily recitations and examinations is the condition of enrollment in a higher class. Some margin, however, is allowed for making up studies in arrears. But more than six hours per week required for such studies or more than six hours per week omitted from the studies of a given class prevents enrollment therein, except that in the engineering courses the number in both cases may be as many as eight. No student can be classified a Freshman in any course who has more than six hours per week of unfinished preparatory work.

**Special Students.** I. Students are advised to pursue in all cases in which it is practicable some one of the regular courses leading to a degree. The number of these courses with the liberal provision for electives allows sufficient play for individual preference in the

selection of subjects required for a liberal and well rounded education.

2. But students who are not candidates for a degree, but who have completed all the studies below the Freshman class, may elect a special course of study subject to the approval of the professor in charge of the major subject chosen.

3. Persons of mature age (not less than 21 years of age) may elect a special course of study under the direction of the Faculty, provided they show by examination or otherwise that they are qualified to pursue profitably the studies which they propose to take up.

4. Students in special courses are subject to the same regulations and to the same examinations in the studies pursued as all other undergraduate students.

**Examinations.** 1. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations and of the examinations, and are divided into five groups, as follows: "Excellent" (E); "Good" (G); "Fair" (F); "Poor" (P); "Bad" (B). A grade not lower than "Fair" is required for a "pass," which is the equivalent of about 75 per cent. At the end of each term a report is made to the parent or guardian of each student showing his progress, general conduct, etc.

2. If a student has failed in any study, he may nevertheless be allowed to take up the next

study in advance, provided he be deemed, by the professor in charge of the department to which such study belongs, not incompetent to pursue it; but he will be required to pass a satisfactory examination in the study in which he failed, or take it up with the next class.

3. If a student has proved competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

An act of the General Assembly of Appointment the State of Arkansas "To Regulate of Bene- the Appointment of Beneficiary Stu- ficiaries. dents in the Arkansas Industrial University and to Amend Section 4088 of the Digest of the Statutes of 1894," ap- proved April 19, 1895, reads as follows:

"*Section 4088.* It shall be the duty of the Board of Trustees to apportion the number of beneficiaries who shall be admitted as students in the University, without tuition, among the several counties of the State, according to population, and to notify the county judge of each county of the number apportioned to the county at least two months prior to the beginning of each regular annual session of the school; and it shall be the duty of the county judge to appoint from the actual residents of the county the number of beneficiaries

to which it may be entitled, a preference being given to those noted for diligence and proficiency in study; and the appointment so made shall be entered of record. If the judge of any county shall fail to appoint its quota of beneficiaries, or if those appointed shall fail to attend, the president of the University shall appoint such beneficiaries to the full number authorized by law from other counties having their full quota; *Provided*, such appointments shall be vacated on application of the county judge of a county so failing to fill its quota."

The number of beneficiaries fixed by **Number of Beneficiaries.** the Board of Trustees is 1,000, distributed to the counties of the State in proportion to the population.

There is also one "Honorary Scholarship" to each county, to be awarded for superior merit and proficiency, from the public schools of each county, according to section 2, of act of July 23, 1868.

All the beneficiary students should be present if practicable at the opening of the first term.

Appointments of beneficiaries are made for a period of four years; but failure to enter the University within a reasonable time, or absence from the University for a year or more forfeits the appointment. Withdrawal at any time during the session may be construed to forfeit an appointment. A student may be reappointed after an appointment has expired or been forfeited, but in such case the matriculation fee is paid again.

**Qualifications.** County judges, in appointing beneficiaries, are requested to note that applicants will be required to pass satisfactory examinations in the following subjects as a condition of admission to the lowest preparatory class:

1. The Grammar School Arithmetic.
2. Maxwell's Elementary Grammar and Composition.
3. The whole of some Complete Manual of Geography.
4. Proficiency in spelling, reading and writing.

It is *highly important* in making appointments to note carefully these requirements; otherwise students coming to the University unprepared incur needless expense and go away disappointed and often discouraged.

**Forms of Appointment.** Students who have been appointed beneficiaries must bring evidence of appointment in the following form, to be sent by the judge of the county court, in accordance with the sixth section of an act approved March 6, 1875.

[*Form 1—Appointment.*]

No..... [To be given to the student.]

TO WHOM IT MAY CONCERN:

I hereby appoint..... of..... County,  
State of Arkansas, as a beneficiary to the Arkansas Industrial  
University.

Given under my hand this..... day of..... 189.....

Send a notice like the following to the President of the University, and one to the Secretary of the Board of Trustees, at Fayetteville:

[*Form 2—Notice to President of University.*]

Arkansas,

To the..... University:

I hereby notify you that I have this day appointed .....  
of ..... County, State of Arkansas, a beneficiary of the  
Arkansas Industrial University.

Given under my hand this..... day of..... 189.....

Counties.		Counties.	
Arkansas .....	10	Lee .....	16
Ashley .....	13	Lincoln .....	12
Baxter.....	7	Little River.....	6
Benton .....	24	Logan.....	19
Boone .....	15	Lonoke .....	15
Bradley .....	8	Madison .....	15
Calhoun.....	7	Marion.....	10
Carroll.....	16	Miller.....	12
Chicot.....	12	Mississippi .....	9
Clay .....	13	Monroe .....	12
Clark.....	15	Montgomery.....	7
Cleburne.....	8	Nevada .....	17
Cleveland.....	10	Newton.....	6
Columbia.....	19	Ouachita .....	15
Conway.....	16	Perry.....	6
Craighead.....	8	Phillips.....	28
Crawford.....	11	Pike. ....	3
Crittenden.....	11	Poinsett .....	7
Cross .....	6	Polk .....	3
Dallas....	9	Pope .....	19
Desha.....	11	Prairie .....	10
Drew .....	15	Pulaski.....	45
Faulkner.....	17	Randolph.....	12
Franklin .....	18	Saline.....	11
Fulton.....	8	Scott.....	19
Garland.....	11	Searcy .....	7
Grant .....	8	Sebastian.....	28
Greene.....	9	Sevier.....	8
Hempstead .....	24	Sharp .....	12
Hot Spring.....	10	Stone .....	8
Howard .....	12	St. Francis .....	10
Independence.....	21	Union .....	16
Izard.....	14	Van Buren.....	11
Jackson .....	15	Washington .....	30
Jefferson .....	29	White.....	21
Johnson.....	15	Woodruff.....	12
Lafayette.....	6	Yell .....	18
Lawrence .....	10		

**Fees and Expenses.** Beneficiary students pay no tuition except in Music. (For terms in Art and Music, see Departments of Art and Music.)

Admission fee, per session, charged all beneficiary students.....	\$ 5.00
Tuition per year to non-beneficiary students.....	30.00
Furniture for dormitory students, from.....	\$ 6.00 to 15.00
Board in dormitory at cost, per month, from....	\$ 8.00 to 9.50
Board in private families, per month, from. ....	\$10.00 to 15.00
Uniform, including cap, purchased by male students, from.....	\$13.00 to 15.00
Washing, per month, from.....	\$1.00 to 1.50

The necessary expenses of a student who wishes to live cheaply are:

Board in dormitory, 9 months, about .....	\$ 80.00
Washing, 9 months, about.....	9.00
Furniture, first year only.....	\$6.00 to 15.00
Admission fee.....	<u>5.00</u>
Total expenses first year, including uniform, but not other clothes or books, about.....	\$109.00
Total expenses, after first year, about.....	94.00

Admission fees are payable in advance; tuition fees payable one-half at the beginning of each term. Board bills are payable monthly in advance.

A diploma fee of \$5.00 is charged all graduates. All dues are to be paid or satisfactorily adjusted before diplomas are conferred.

**Board for Young Men.** Rooms in the University dormitories are free, but occupants provide their furniture, fuel, and lights. Students leaving the University frequently sell their furniture at a small reduction. If there are

not rooms enough for all, preference is given to Arkansas students. An officer of the University is in charge of the building, and the rooms are inspected by the Faculty whenever deemed necessary.

Students boarding elsewhere are under the supervision of the President of the University, and are allowed to board only at places approved by him. No student is allowed to change his boarding place without the consent of the President.

**Board for Young Ladies.** Sufficient funds have not yet been secured to provide a dormitory for young ladies, but all necessary assistance is rendered them in finding homes in private families in the town. Parents, therefore, who send a daughter to the University, should place her under the control of the family with whom she boards, subject to the general supervision of the President of the University.

**Absences and Withdrawals.** Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son at any time, without reason assigned, is recognized; but without so withdrawing him, he cannot relieve him of the obligation to attend to his duties at the University. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the Faculty permit them, in cases where propriety or urgent necessity

seems to make them unavoidable, they hold it to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the President stating their wishes. No honorable discharge will be given to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian for his withdrawal from the University.

**Sale of Ardent Spirits Prohibited.** By an act of the General Assembly of the State of Arkansas, approved March 6, 1875, it is unlawful for any person to sell or give away any vinous or ardent spirits within 3 miles of the Arkansas Industrial University, unless it be prescribed by a regular practicing physician for medicinal purposes.

## University Organizations.

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### Literary Societies.

Material changes have recently been made in the organization of the literary societies, and their meetings, which are held weekly, afford enlarged opportunities for improvement in declamation, composition, debate, etc. Renewed interest in this valuable means of culture is shown by a number of students.

Dr. A. S. Gregg, of the class of 1878, Prizes in the Mathetian Society. and Professor G. W. Droke, of the class of 1880, both members of the Mathetian Society, have generously offered prizes to be competed for by the members of that society; the former for the best oration, including both composition and delivery; the latter for the best declamation. These prizes are awarded during the commencement exercises.

Profs. W. A. Crawford and G. A. Prizes in the Garland Society. Cole have each offered handsome prizes to be competed for by the members of the Garland Society, the former for excellence in declamation, the latter for the greatest improvement in debate.

**The  
Arkansas  
University  
Geological  
and  
Biological  
Survey.**

For the promotion of interest in the natural sciences and a systematic investigation of the many interesting questions of natural history within and adjoining the State, it is proposed to organize the Arkansas University Geological and Biological Survey. A party will be organized for field work during the summer vacation under the direction of the professors in charge of Geology and Biology. Any student whose attainments are such as to permit him to take the work to advantage may be admitted to the party. In each case credit will be given in the University course according to the time spent and the character of the work done. Science teachers and others interested in science throughout the State are cordially invited to avail themselves of this opportunity of doing a pleasant and profitable summer's work.

**University  
Magazine.**

The "Ozark" is a monthly periodical published by a stock company and edited by a committee of students.

It is sent free to all the accredited schools and to such other schools in the State as may desire it.

**Religious  
Exercises.**

Religious exercises are held regularly in the University Chapel at the beginning of each daily session. Students are required to attend.

The churches of Fayetteville cordially welcome the students to their Sunday schools and various

meetings for prayer and religious instruction. The denominations represented in the city are Baptist, Presbyterian, Cumberland Presbyterian, Methodist Episcopal, Methodist Episcopal South, Protestant Episcopal, Christian, and Roman Catholic. Many of the students are actively engaged in the work of the different church societies and guilds. The Young Men's Christian Association has commodious quarters in Buchanan Hall, and a commendable interest is shown. A Bible class has held meetings Sunday afternoon, and has been well attended.

The purpose of this organization is to  
**Athletic** encourage the development of the  
**Association.** physical man.

The Association as originally formed consisted of the U. of A. Athletic Club, the U. of A. Tennis Club, the U. of A. Baseball Club, and the U. of A. Football Club; and it is further provided that if any other club, organized by the students of the University for the practice of any sport, game, or exercise not already represented by one of the members of the Association, shall make a written application for membership in the Association, and the said application shall be approved by the governing body of the Association, the petitioning club shall become a member of the Association with all the rights and privileges pertaining to such membership.

**Military Department.** The head of this department is an officer of the United States Army detailed by the War Department for duty at the University.

All male collegiate students are required to take the Theoretical Course, and all male students over 15 years of age, not physically disabled, are required to take the Practical Course in Military Science, the latter including infantry drill, target practice, camping, guard duty, and various other exercises, the course covering the entire period of the student's stay at the University.

The act of Congress donating public lands for educational purposes requires that institutions which are the beneficiaries of such donations include Military Science and Tactics in their courses of instruction.

The system of practical instruction closely follows that used in the United States Army. It contains a course of gymnastic exercises for the development and improvement of the arms, chest, legs, hands, and feet. Besides being excellent physical training, this instruction has many advantages mentally. The necessity of being alert, listening for each word of command, and acting promptly on it, quickens the wit and cultivates the habit of fixing the attention and concentrating the thoughts. In addition to all this, it inculcates in the student a respect for authority and discipline which is equaled by no other system.

The cadets are organized into two battalions, composed of field staff, band, and five companies. The officers and non-commissioned officers are selected from those students who are most proficient in their drill and military studies, and most exemplary in their deportment, the majors, captains, and lieutenants being taken, usually, from the Senior and Junior classes, and sergeants and corporals from the Sophomore and Freshman classes. An office in one of the battalions is one of merit and distinction, and any unbecoming conduct subjects the appointee to reduction to the ranks.

The cadet band, of some twenty pieces, constitutes an interesting feature of the military organization. It receives the best instruction obtainable, practices three hours per week, and takes part in all military ceremonies.

A competitive drill is held annually at the close of the school year, when prizes are awarded for proficiency in this department. The result of the last competition, held in June, 1898, was as follows:

#### COMPETITION AMONG THE COMPANIES.

To Company "F," Captain A. V. Smith commanding, was awarded the National Color for the following year.

#### CAPTAINS' COMPETITION.

To Captain A. V. Smith was awarded the Sword.

## INDIVIDUAL COMPETITION.

To Sergeant B. L. Moore was awarded the Gold Medal.

**Army Appointments.** The three students of the Senior class having the highest grade of merit in this department are reported to the Secretary of War, and their names are recorded in the Adjutant-General's office and published in the Army Register for that year. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. The three graduates of the class of 1898 having the highest military merit were: Cadet Major George Nicholls, Cadet Major M. L. Bell, Cadet Captain A. V. Smith. Cadet officers, on graduation, are brevetted in the State Guard with the rank held by them in the Cadet Battalions at the date of their graduation, and recommendations of the Commandant of Cadets as to special military qualifications of graduates of the military course are filed in the office of the Adjutant-General of the State and considered in appointing commissioned officers of the State Guard.

A neat uniform of gray cloth, with brass buttons and black trimmings, is required to be worn by all cadets at drill. The uniform, complete, costs about \$15, and with ordinary care will last an entire year.

## ORGANIZATION OF THE CORPS OF CADETS FOR THE YEAR 1898-'99.

Cadet Captain W. A. Ross,  
Acting Commandant of Cadets.

## COMMISSIONED AND NON-COMMISSIONED STAFF.

Cadet First Lieutenant and Adjutant.....D. W. Taylor.  
Cadet First Lieutenant and Quartermaster. .C. F. Sanders.  
Cadet Sergeant Major.....Chester Sloan.  
Cadet Quartermaster Sergeant.....\*D. K. Hawthorne.  
Cadet Quartermaster Sergeant .....‡E. D. Means.

## BAND.

Cadet First Lieutenant, Commanding the Band,I. F. Stewart.  
Cadet First Lieutenant, Leader of the Band....H. W. Gates.  
Cadet Second Lieutenant of the Band.....L. F. Owens.  
Cadet Principal Musician.....A. W. Bevers.  
Cadet Principal Musician.....T. T. Dickinson.  
Cadet Drum Major... ....E. D. Kidder.  
Cadet Sergeant of the Band.....J. L. Dunn.

## FIRST BATTALION.

Cadet Major, Commanding the Battalion.....R. W. Huie.  
Cadet First Lieutenant, Acting Adjutant....H. A. Patterson.

## COMPANY "F" (COLOR COMPANY).

Cadet Captain.....F. B. Kirby.  
Cadet First Lieutenant .....J. C. Wilmot.  
Cadet Second Lieutenant.....Sidney Connelly.  
Cadet First Sergeant.....G. A. Vincenheller.  
Cadet Sergeant.....H. L. Ross.  
Cadet Sergeant.....V. H. Cochrane.  
Cadet Sergeant.....F. I. Brown.  
Cadet Sergeant.....Chas. Pittman.  
Cadet Corporal.....J. B. Waddell.  
Cadet Corporal.....C. H. Triplett.  
Cadet Corporal.....G. D. Henderson.  
Cadet Corporal.....Rathburn Alden.

\* Withdrawn.

† Appointed February 21, 1899.

## COMPANY "C."

Cadet Captain.....	C. R. Fillmore.
Cadet First Lieutenant.....	G. F. Towler.
Cadet Second Lieutenant.....	R. E. Philbeck.
Cadet First Sergeant.....	W. E. Babb.
Cadet Sergeant.....	§P. T. Staggs.
Cadet Sergeant.....	W. A. Beakley.
Cadet Sergeant .....	H. H. Wilson.
Cadet Sergeant.....	W. A. Treadway.
Cadet Sergeant .....	‡C. N. Weems.
Cadet Corporal .....	H. E. Buchanan.
Cadet Corporal .....	W. A. Freeman.
Cadet Corporal .....	W. H. Hudgins.
Cadet Corporal.....	J. C. Blaylock.
Cadet Corporal.....	J. H. Hawthorne.

## COMPANY "A."

Cadet Captain.....	E. T. Brown.
Cadet First Lieutenant.....	T. C. Trimble.
Cadet Second Lieutenant.....	G. C. Abernathy.
Cadet First Sergeant.....	G. W. Eld.
Cadet Sergeant.....	C. B. Martin.
Cadet Sergeant.....	C. C. Curry.
Cadet Sergeant.....	W. E. Taylor.
Cadet Sergeant.....	W. D. Gray.
Cadet Corporal.....	F. E. Elliot.
Cadet Corporal.....	E. C. Knott.
Cadet Corporal.....	R. B. Barton.
Cadet Corporal.....	G. V. Prall.

## SECOND BATTALION.

Cadet Major, Commanding the Battalion.....	§J. H. Snapp.
Cadet Major, Commanding the Battalion.....	‡B. E. Turner.

## COMPANY "E."

Cadet Captain.....	J. L. Hornor.
Cadet First Lieutenant.....	§W. V. Boatwright.
Cadet First Lieutenant.....	‡R. L. Saxon.

§ Honorable discharged.

† Appointed February 21, 1899.

Cadet Second Lieutenant.....	§E. G. Martin.
Cadet Second Lieutenant.....	‡B. L. Moore.
Cadet First Sergeant.....	E. R. Berry.
Cadet Sergeant.....	Calvin Sellers.
Cadet Sergeant.....	J. M. Clayton.
Cadet Sergeant.....	O. E. Jones.
Cadet Sergeant.....	Carleton McRea.
Cadet Corporal.....	J. E. Johnston.
Cadet Corporal.....	H. S. Brown.
Cadet Corporal.....	G. W. Mathews.
Cadet Corporal.....	B. L. Herring.

## COMPANY "B."

Cadet Captain.....	W. H. Rattenbury.
Cadet First Lieutenant.....	Frank Horsfall.
Cadet Second Lieutenant.....	C. H. Orto.
Cadet First Sergeant.....	A. J. Vaughan.
Cadet Sergeant.....	H. H. Hamilton.
Cadet Sergeant.....	A. W. Wasson.
Cadet Sergeant.....	L. L. Newman.
Cadet Sergeant.....	Carl Smith.
Cadet Corporal.....	A. J. Martin.
Cadet Corporal.....	H. R. Pyeatt.
Cadet Corporal.....	Norman Wilkinson.
Cadet Corporal.....	J. W. Baxter.

**The Agricultural Experiment Station.** The National Government established the Experiment Station as a department of the University in 1887, and maintains it to investigate agricultural problems for the aid of the farmers of the State.

The work of the Experiment Station is divided into the special lines of Agriculture, Horticulture, Chemistry, and animal and plant diseases. Spec-

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§ Honorably discharged.

† Appointed February 21, 1899.

ialists are employed in each line, and experiments are made both in the field and laboratory in the improvement of soils, the rotation of crops, diseases of plants and domestic animals, in fertilizers, the value of stock foods, dairying, and other matters. Students interested in agricultural subjects are given opportunity to observe the experiments and to acquaint themselves with the work of the Station in its various departments; the bulletins are also available for their use. The experiments and their results are published in bulletins, which are sent free to farmers, stock raisers, and fruit growers of the State, and to others interested in agriculture.

Those who desire the Station bulletins should apply for them to the Director of the Station, Fayetteville, Ark. One application is sufficient to obtain all future bulletins, if desired.

## DEGREES.

The following degrees are conferred by the University:

For undergraduate work:

Bachelor of Arts (B. A.).

Bachelor of Philosophy (B. Ph.).

Bachelor of Science (B. S.).

Bachelor of Civil Engineering (B. C. E.).

Bachelor of Mechanical Engineering (B. M. E.).

Bachelor of Electrical Engineering (B. E. E.).

Bachelor of Scientific Agriculture (B. S. A.).

For graduate work:

- Master of Arts (M. A.).
- Master of Science (M. S.).
- Mechanical Engineer (M. E.).
- Civil Engineer (C. E.).
- Electrical Engineer (E. E.).

The number of hours required for graduation in all courses leading to the degrees of B. A., B. Ph., and B. S. is sixty-four, exclusive of military science and tactics.

The courses leading to these degrees have been planned with the view of retaining as required studies those subjects which seem essential for all who are candidates for a liberal degree, and, at the same time, of allowing as large freedom of selection as is consistent with the attainment of a sound education.

## SCHEDULE OF STUDIES FOR THE DEGREES;

B. A.

## FRESHMAN YEAR.

	Hours per week
English 1.....	3
Latin 1.....	3
Greek 1.....	4
Mathematics 1.....	3
History 1.....	2

## SOPHOMORE YEAR.

English 2.....	3
Latin 2.....	3
Greek 2.....	5
Mathematics 3.....	3
Chemistry 1, or Physics 1, or Biology 2 and 3, 4, 5, or 6, or Geology 1 or 2.....	3

B. PH.

## FRESHMAN YEAR.

	Hours per week
English 1.....	3
Latin 1.....	3
Biology 2 and 3, or 4, or Geology 1.....	3
Mathematics 1.....	3
Chemistry 1, or Physics 1.....	3

## SOPHOMORE YEAR.

English 2.....	3
Latin 2.....	3
German 1 or French 1.....	3
Mathematics 3.....	3
History 1 or 2, or Economics 1.....	2
Chemistry, or Physics, or Biology, 2 and 3, 4, 5, or 6, or Geology 1 or 2.....	3

B. S.

## FRESHMAN YEAR.

	Hours per week
English 1.....	3
German 1.....	3
Chemistry 1.....	3
Mathematics 1.....	3
Biology 2 and 3, or 4, or Geology 1, or Agriculture, or Horticulture.....	3

## SOPHOMORE YEAR.

English 2.....	3
German 2.....	3
Physics 1.....	3
Mathematics 3.....	3
History 1 or 2, or Economics 1.....	2
Biology 2 and 3, 4, 5, or 6, or Geology 1 or 2, or Chemistry, or Agriculture, or Horticulture.....	3

*Schedule of Studies for the Degrees.*

SCHEDULE OF STUDIES FOR THE DEGREES—Continued.

B. A.

JUNIOR YEAR.

	Hours per week
English 4.....	2
Latin 3, or Greek 3.....	3
History 2, or }.....	2
Economics 1..... }.....	2
Elective.....	9
	16

B. PH.

JUNIOR YEAR.

	Hours per week
English 4.....	2
German 2, or }.....	3
French 2..... }.....	3
History 2 or 3, or }.....	3
Economics 2 or 7 }.....	3
Elective.....	8
	16

B. S.

JUNIOR YEAR.

	Hours per week
English 4.....	2
History 2 or 3, or }.....	3
Economics 2 or 7 }.....	3
Chemistry, or }.....	3
Physics, or }.....	3
Biology, or }.....	3
Geology.....	8
Elective.....	16

SENIOR YEAR.

	Hours per week
English 6.....	1
Philosophy 1.....	3
Some language already }.....	3
studied..... }.....	3
Elective.....	9

SENIOR YEAR.

	Hours per week
English 6.....	1
Philosophy.....	3
History or }.....	3
Economics 2 or 7 }.....	3
Elective.....	9

SENIOR YEAR.

	Hours per week
English 6 .....	1
Philosophy .....	3
A natural or physical }.....	3
science already stud- }.....	3
ied.....	9
Elective.....	16

NOTE 1—The figures immediately following each subject refer to the Description of Courses beginning on page 61.

NOTE 2—For courses in Engineering, see pages 87, 94, 97; in Agriculture, 102; in Horticulture, 104; in Normal Department, 82; in Music, 108; in Art, 111.

64

64

64

57

**Require-  
ments for the  
Master's  
Degree.**      1. A prior Bachelor's Degree of the University of Arkansas, or of another institution in which the courses pursued have been in all respects equivalent.

2. Graduate study during a residence of at least one year in any three departments, in which the candidate has completed three courses in the major subject and two courses in each of the minor subjects; provided, graduates of this institution may do not more than half of their work *in absentia*, under the direction of the heads of the departments, but in all cases the candidate must be in residence during the term previous to his examination.

3. Acceptable work equivalent to eight hours (including a reasonable allowance for thesis) in major, and four hours in each of the minors.

4. A satisfactory thesis in the major subject, the theme of which must be approved by the head of the department six months before the examination.

5. The candidate must hand to the Professor under whom he has his major subject, the thesis on or before the first of May. No candidate shall appear for final examination until the thesis has been approved.

**Requirements for  
the Degrees  
of C. E.,  
M. E., or  
E. E.**

These courses of study are intended to give additional preparation to those students who have finished an undergraduate course in Engineering, for some special line of work to which their previous study has led. The student will have all reasonable liberty in selecting such specialties and will be limited only by certain general requirements. He will be required at the beginning of the year to make up the course which he proposes to follow and to present it to the Faculty, approved by the instructors concerned. If accepted, it will be subject to change only by the Faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above degrees must be submitted to the Faculty for approval before the middle of the second term.

These degrees will also be given to graduates in Civil, Mechanical, and Electrical Engineering who have been in successful practice of their profession for three years and who have submitted a satisfactory thesis on a subject approved by the Faculty.

*Charges.*—Graduate students pay \$10 for matriculation and registration, \$10 tuition (non-residents \$5) at the beginning of each session, and \$10 in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent of two terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is \$5 in advance in each case.

Graduates attending only undergraduate classes pay the same fee as undergraduates.

Non-resident students have such assistance and instruction in their studies as can be conveniently given by correspondence.

**Honors.** Students who have attained grade "E" in work aggregating fifty hours per week (counted on the basis of a four years' course) are granted degrees "with special distinction."

Students who have attained grade "E" in work aggregating thirty-two hours per week, or grade "E" or "G" in work aggregating fifty hours per week, are granted degrees "with distinction."

# Description of Courses.

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## ANCIENT LANGUAGES.

J. C. FUTRALL, Professor.

E. F. SHANNON, Associate Professor.

In this department the following courses are offered :

### LATIN.

1. *Sallust, Cicero and Virgil*..... 3

An accurate knowledge of the Latin forms is insisted upon; exercises in prose composition taken from Bennett's Latin Composition.

*Associate Professor Shannon.*

Required of Freshmen in the B. A. and B. PH. courses.

2. *Cicero and Livy*..... 3

Systematic study of the grammar; exercises in prose composition, based chiefly upon the authors read in class; sight reading; Roman literature.

*Professor Futrall.*

Required of Sophomores in the B. A. and B. PH. courses.

3. *Horace, Livy and Tacitus*..... 3

Large amounts of each author read in class; parallel reading assigned; study of the grammar continued; the metres of Horace; prose composition; Roman literature.

*Associate Professor Shannon.*

Optional with Greek 3 for Juniors in the B. A. course.

4. *Sight Reading Course*..... 2-1

*Professor Futrall.*

Elective for students who have completed course 2.

5. *Roman Poets* ..... 3

Readings will be taken from Plautus, Terence, Catullus, Horace and others, and the attention of the student will be directed rather to the literary side of the authors read than to grammatical and syntactical peculiarities.

*Professor Futrall.*

Elective for students who have completed course 3.

Text-books: Bennett's and Gildersleeve's Grammars; Wilkin's Primer of Roman Literature; Cruttwell's Roman Literature. Any approved edition of the Latin authors may be used, except when certain editions are prescribed. Harper's and White's Lexicons are recommended.

## GREEK.

1. *Elementary Course* ..... 4

White's Beginner's Greek Book, with selections for reading. A thorough mastery of the forms and constructions given in this book is required.

*Associate Professor Shannon.*

Required of Freshmen in the B. A. course.

2. *Xenophon and Lysias* ..... 5

This course is intended to familiarize the student with all the ordinary Attic forms and constructions; frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading; Goodwin's Grammar.

*Professor Futrall.*

Required of Sophomores in the B. A. course.

3. *Homer, Herodotus and Plato* ..... 3

Systematic study of the grammar; prose composition; Greek literature; sight reading.

*Associate Professor Shannon.*

Optional with Latin 3 for Juniors in the B. A. course.

4. *Thucydides, Demosthenes, Aristophanes and Sophocles . . . . .* 3

The course will be conducted on the same plan as Latin 5.

*Professor Futrall.*

Elective for students who have completed Course 3.

Text-books: Goodwin's Revised Greek Grammar; Goodwin's Greek moods and tenses; Collar and Daniell's Prose Composition, based on Xenophon's Anabasis; Higley's Exercises in Greek Composition. Any approved edition of the Greek authors may be used, except when certain editions are prescribed. Liddell and Scott's Lexicons are recommended.

## ENGLISH AND MODERN LANGUAGES.

ERNEST T. BYNUM, Professor.

HADGIE DAVIES, Associate Professor.

CLARA EARLE, Instructor.

### ENGLISH.

1. *English Language and Literature . . . . .* 3

(a) Meiklejohn's English Language; eight essays (chiefly narrative and descriptive) criticised and corrected by the instructor and copied by the student; thorough drill in English metres. For reference: Baskerville and Sewell's Grammar, Lounsbury's History of the English Language. *Twice a week.*

(b) Meiklejohn's History of English Literature, with parallel readings from thirty-five leading authors, ranging from Mandeville to Ruskin, and reports on same in class. For reference: Pancoast's English Literature, Shaw and others. *Once a week.*

*Miss Davies and Miss Earle.*

Required of all Freshmen in the B. A., B. S., B. Ph., and Engineering courses.

Required of all Sophomores in the Agricultural course.

2. *Prose Style and American Literature . . . . . 3*

(a) Study of Standard prose, with rhetorical analysis and criticism. For 1898-'99 the selections are from Irving, Ruskin, Carlyle, Burke, Goldsmith, Swift, Addison, Bacon; three essays. Text-books: Garnett's English Prose and other texts, with extensive critical notes and questions prepared by the instructor. For topical study: Genung's Rhetoric. For reference: Minto, Pancoast, Shaw, and others. *Twice a week.*

(b) Watkin's American Literature, with extensive parallel readings from leading American authors, and class reports. For reference: Hawthorne and Lemon, Manly, Pancoast, Pattee. *Once a week.*

*Miss Davies.*

Required of all Sophomores in B. A., B. Ph., and B. S. courses; elective for all others who have completed Eng. 1.

[In 1899-1900 the prose selections for (a) will be from Hawthorne, Thackeray, Macaulay, DeQuincey, Scott, Johnson, Steele, Milton. This part of Course 2 may be taken for two consecutive years.]

3. *Victorian Literature . . . . . 3*

A critical study of representative writers and of their masterpieces, with parallel readings, reports in class, and essays. Text-books: Saintsbury's Literature of the Nineteenth Century, and topical studies from Morley, Stedman, Taine, Whipple, and others; critical editions of Hood, Tennyson, the Brownings, Ruskin, and of other prominent writers. The study of prose writers in this class is a continuation of the course in Nineteenth century prose given in English 2.

*Miss Davies.*

Junior and Senior elective in all courses.

[In 1899-1900, the Classic School of Poets. Course 3 (a) may be taken for two consecutive years.]

4. *American Literature . . . . . 2*

Lives of the leading writers and critical study of their masterpieces, with parallel readings, reports in class, and

essays. Text-books: Pattee's American Literature and topical studies from Manly, Pancoast, Stedman, Richardson, from the American Men of Letters Series, and from other works; critical editions of Irving, Bryant, Poe, Longfellow, Emerson, Lanier, and of other leading writers.

*Miss Davies.*

Junior and Senior elective in all courses.

[In 1899-1900 Poets of the Romantic Movement. Course 3 (b) may be taken for two consecutive years.]

5. *Middle English and Early Modern English . . 2*

Literary history of period from Chaucer to Milton; reading of representative authors, with historical, philological, and literary criticism; three essays. Morris's Chaucer, Kitchen's Spenser, Cook's or Sprague's Milton, Sprague's plays of Shakespeare and the Arden edition, parallel readings from these authors. For reference: Bucknell, Coleridge, Dowden, Gervinus, Hazlitt, Hudson, Pollard, Saintsbury, Ulrici, and others.

*Miss Earle.*

Required of all Juniors in B. A., B. Ph., and B. S. courses; elective for others who have completed Eng. 1 and 2.

6. *Anglo-Saxon and Middle English . . . . . 3*

Readings from the Anglo-Saxon Gospels and Chronicles; selections from Alfred, Aelfric, Cædmon, and later writers. Bright's Anglo-Saxon Grammar and Reader (130 pages translated); Morris's Specimens of Early English, Part I; Ten Brink's Old English Literature (selections). For reference: Cook's First Book in Old English, Cook's Sievers's Grammar of Old English, March's Anglo-Saxon Grammar (syntax), Skeat's Etymological Dictionary, Brook's Early English Literature.

*Miss Davies.*

Elective for all students who have completed Eng. 1 and 2.

7. *English Philology . . . . . I*

Champney's English Language, with parallel readings and lectures. For reference and topical study: Skeat's

Principles of English Etymology, Sweet's Grammar (historical part), Earle, Emerson, Henry, Morris, Peile, and others.

*Professor Bynum.*

Required of all Seniors in B. A., B. Ph., and B. S. courses.

#### GERMAN.

1. *Modern German, Elementary* . . . . . 3

Joynes-Meissner Grammar, with composition; Brandt's Reader; committing short poems to memory.

*Professor Bynum.*

Required of all Freshmen in B. S. course; elective with French 1 for Sophomores in B. Ph. course; Junior elective in all other courses.

2. *Schiller and Recent Authors* . . . . . 3

Leander's Traumereien; Freytag's Die Journalisten; Freytag's Aus dem Staat Friedrichs des Grossen; Schiller's Maria Stuart and Die Jungfrau von Orleans; Bernhardt's Deutsche Litteraturgeschichte with topics from Scherer's German Literature; grammar and original composition. For reference: Whitney's Grammar, Jagemann's Syntax. Dictionaries: Fluegel, Thieme-Preussen, Classic, Heath, or Adler (Quarto).

*Professor Bynum.*

Required of Sophomores in the B. S. course; either German 2 or French 2 required of Juniors in the B. Ph. course; elective for all others.

3. *Lessing and Goethe* . . . . . 2

Lessing's Minna von Barnhelm; Goethe's Hermann und Dorethea and Iphigenie; topics from Scherer; Lewes's Life of Goethe, with parallel reading of Düntzer. For reference: Brandt's Grammar, Behaghel's Historical Grammar.

*Professor Bynum.*

Elective for all who have finished Course 1.

4. *German at Sight and Conversation* . . . . . 2

Reading and discussion of easy texts in the German Language.

*Professor Bynum.*

Elective for any one who has completed Course 1.

5. *Scientific German* . . . . . I

Dippold's Scientific German Reader and other selections from German scientists.

*Professor Bynum.*

Elective for all who have completed Course 1.

FRENCH.

1. *Modern French, Elementary* . . . . . 3

Grandgent's Grammar with composition; Rollin's Reader, containing simple prose tales, some extended selections from recent French authors, and a few lyrics from Victor Hugo, Béranger, Gautier, and other poets. De Maistre's *La Jeune Sibérienne*.

*Miss Earle.*

Elective for all students in B. A. and B. Ph. courses; French 1 or German 1 required of B. Ph. Sophomores.

2. *Nineteenth Century Literature* . . . . . 2

Warren's Selections from Victor Hugo; Erckmann-Chatrian's *Histoire d'un Paysan*; Beaumarchais's *Barbier de Seville*; Balzac's *Curé de Tours*; Duval's *Literature Française* (eighteenth and nineteenth centuries); Bevier's grammar and composition. For reference in 2 and 3: Whitney's Grammar; Harrison's *French Syntax*; Saintsbury's *History of French Literature*, and other larger works. Dictionaries: Gasc's, Spier's, and Surenné's *Quarto*, Heath's, *The Classic*.

*Miss Earle.*

Either French 2 or German 2 required of Juniors in the B. Ph. course; elective for all others.

3. *The French Classic Drama* . . . . . 3

Critical study of representative authors; Corneille's *Le Cid*; Racine's *Iphigenie*; Molière's *Le Misanthrope* and *L'Avare*; grammar and composition continued; original composition; lectures on the history of French literature.

*Professor Bynum.*

Junior and Senior elective.

4. *French at Sight and Conversation* . . . . . 2

Reading and discussion of easy texts in the French language.

*Professor Bynum.*

Junior and Senior elective.

5. *Scientific French* . . . . . I

Herdler's Scientific French Reader and other selections from French scientists.

*Miss Earle.*

Junior and Senior elective.

NOTE—2, 3, and 4 have different readings in 1899-1900, and each may be taken for two consecutive years.

## SPANISH.

1. *Modern Spanish, Elementary* . . . . . 3

Edgren's Spanish Grammar with composition; Worman's First Spanish Book; Matzke's Spanish Reader, containing extracts from the best modern authors; Caballero's La Familia de Alvareda.

*Miss Earle.*

Junior and Senior elective.

Ordinarily this class will not be formed for less than five students.

2. *The Spanish Classic Writers* . . . . . 3

Selections from Don Quixote; Lope's La Discreta Enamorada; Calderon's La Vida es Sueño, and El Alcalde de Zalamea; Conant's Spanish Literature; grammar and original composition. For reference: Knapp's Grammar; Sismondi's Literature; Clarke's Spanish Literature; Vallesquez's Quarto Dictionary.

*Miss Earle.*

Junior and Senior elective.

## ITALIAN.

There is at present no class in Italian, but such a course will be offered if a sufficient number of students desire to take it.

**MATHEMATICS AND ASTRONOMY.**

GEO. W. DROKE, Professor.

B. J. DUNN, Associate Professor.

In this department the following courses are offered :

## MATHEMATICS.

1. *Solid Geometry, Algebra* ..... 3

Books IV and V of Plane Geometry, reviewed. The class will devote the last three months of the session to Algebra, beginning with simultaneous quadratic equations.

Required of all Freshmen.

2. *Plane and Spherical Trigonometry* ..... 2

Required of Freshmen Engineers.

Optional for Freshmen in the B. A., B. Ph., and B. S. courses.

3. *Algebra, Plane Trigonometry, Conic Sections* . 3

The class will devote about three months to each of these subjects.

Required of all Sophomores in the B. S., B. Ph. and B. A. courses.

4. *Analytic Geometry* ..... 3

Required of all Sophomore Engineers.

5. *Trigonometry, Algebra, Calculus* ..... 2

Required of all Sophomore Engineers.

6. *Calculus* ..... 3

Required of Junior Engineers.

7. *Spherical Trigonometry, Theory of Equations, and Determinants* ..... 2

Elective. Prerequisite: Course 3.

8. *Analytic Geometry of Three Dimensions, and Differential Equations . . . . .* 3

Elective. Prerequisite: Courses 4 and 6.

#### GRADUATE COURSES.

9. *Modern Pure Geometry, Modern Analytic Geometry . . . . .* 3
10. *Advanced Integral Calculus, Modern Higher Algebra . . . . .* 3
11. *Projective Geometry, Theory of Functions . . . . .* 3

Text-books: Wentworth's Higher Algebra, Phillips and Fisher's Geometry, Crockett's Trigonometry, Osborne's Calculus, C. Smith's Solid Geometry, Johnson's Differential Equations, Tanner & Allen's Analytic Geometry.

#### ASTRONOMY.

12. *Descriptive Astronomy, Lectures and Recitations . . . . .* 3
- Young's Astronomy. First term. Prerequisite: Course III.
13. *Spherical Astronomy . . . . .* 3
- Second term.

#### HISTORY AND POLITICAL SCIENCE.

JAMES W. FERTIG, Professor.

This department aims to meet the demand of all students for a general course in history, and also to provide a sufficient number of elective courses to enable all who wish to do so to take ad-

ditional courses in history, constitutional law, and the theory, organization and conduct of governments. A broad general course may be obtained by taking courses 1 to 4 inclusive, which must be taken in the order given below. In the Bachelor of Arts course, course 1 is required in the Freshman class. It is strongly urged that all candidates for the B. S. and Ph. B. degrees take Greek and Roman history in their preparatory work, in which case they can take courses 2 and 3 in the Sophomore and Junior years, and be prepared to elect any course offered by the department in their Senior year. Those who wish to elect any of the courses, 7 to 10 inclusive, must bear carefully in mind that they must at least have completed course 2 before they reach the Senior year.

COURSES.

1. *History of Greece and Rome* . . . . . 2

Required in the Freshman year of all students in the B.A. course. Students in B. S. and Ph. B. courses will take this course in the Sophomore year, unless they have taken Greek and Roman history in the preparatory school, in which case they will take course 2 instead.

2. *History of the Middle Ages* . . . . . 3

This course may be taken in the Sophomore year by all students who enter with Greek and Roman history, and in the Junior or Senior year by all who have taken course 1.

3. *History of Modern Europe*.

This course may be elected in Junior or Senior year by all students who have taken course 2.

4. *American Political and Constitutional History* ..... 2  
 From the Revolution to the present, with a review of the colonial period. May be elected by all in the Junior or Senior year.
5. *American Civil Government and Constitutional Law* ..... I  
 May be taken with course 4, or separately.
6. *Outline Course in History of England* ..... I  
 Prerequisite: Course 1.
7. *Outline Course in the History of Art* ..... I
8. *Reformation and Religious Wars (first term)* ..... 2  
 Prerequisites: Courses 1 and 2.
9. *French Revolution and Napoleonic Era (second term)* ..... 2  
 Prerequisites: Courses 1 and 2.
10. *Comparative Study of American and European Governments (first term)* ..... 2
11. *Constitutional History of England (second term)* ..... 2  
 Prerequisites: Courses 1, 2, and 3, or 6.

## ECONOMICS AND SOCIOLOGY.

S. J. MCLEAN, Professor.

The courses offered in this department are designed to afford such instruction as will be advantageous to those who intend to enter public life, or those callings which will bring them closely in

touch with the activities of citizenship. Course 1 is required before more advanced courses in this department are taken.

1. *Principles of Economics* ..... 2

Recitations, prescribed readings, reports and debates.  
Text-book: Walker, Political Economy.

This course is a prerequisite to more advanced work in Economics.

2. *Industrial History of America and Europe since 1763 (first term)* ..... 3

The leading industrial facts of this period are considered, and a detailed study of some of the more important industries will be made. Lectures, reports and prescribed readings. Selected portions of Rand's Economic History will be studied.

3. *Banking (first part of second term)* ..... 3

The principles of Banking and the history of Banking Systems. Lectures, recitations, reports and readings.  
Text-book: Dunbar, Chapters in the Theory and History of Banking.

4. *Money (latter part of second term)* ..... 3

The principles of Money and the history of Monetary Systems are considered. Text-books: Walker and Jevons.

5. *Tariff History and Problems (first term)* ... 2

Special attention will be devoted to the tariff history of the United States. Text-book: Taussig, Tariff History of the United States. This will be supplemented by lectures and use of government documents.

6. *History of Economic Thought, from Plato and Aristotle to the Present (second term)* ... 2

Text-book: Ingram's History of Political Economy; supplementary readings and reports will also be required.

7. *Taxation and Finance (first term) . . . . . 3*

Principles and history of taxation, management of public debts, and consideration of governmental activities. Text-book: Plehn, Introduction to Public Finance. Lectures and readings and use of government documents.

8. *Railway Transportation; Its History and Problems (second term) . . . . . 3*

The evolution of the railroad system, government control, the rate-making question, railroad commissions, etc. Text-book: Hadley, Railroad Transportation. Lectures, prescribed readings, and use of original material.

9. *Principles of Sociology (first term) . . . . . 2*

This course considers the elements and conditions of social growth and progress. Recitations and lectures. Text-book: Fairbank's Introduction to Sociology.

10. *Problems of Social Growth (second term) . . . 2*

This is an advanced course in which social problems, such as the relations of capital and labor, pauperism, crime, social amelioration, immigration, etc., are discussed. Lectures and reports. The student is expected to familiarize himself with official reports bearing on these questions.

**CHEMISTRY AND PHYSICS.**

A. E. MENKE, Professor.

W. B. BENTLEY, Associate Professor.

1. *General Inorganic Chemistry . . . . . 3*

Lectures and recitations twice a week; laboratory work one afternoon throughout the year. Text-book: Richter.

*Professor Menke.*

Required for Freshmen B. S., all Engineering Courses, and B. S. A

2. *Chemical Philosophy*.....2

Twice per week, second term. This course supplements the instruction in theoretical chemistry given in course 1. Text-book: Morgan's Physical Chemistry. Reference books: Ostwald's General Chemistry, and Meyer's Theoretical Chemistry.

*Associate Professor Bentley.*

3. *Qualitative Analysis.*

(a) Recitations twice per week, first term. (b) Laboratory work two afternoons per week for engineering students, three afternoons for scientific students, throughout the year. The recitations are occupied with the discussion of problems depending on the principles of qualitative analysis. The object of these discussions is to enable the student to understand the methods of separation as well as to be able to follow them practically. In the laboratory a large number of substances, both simple and complex, are analyzed. Laboratory Manual: Hill's Lecture Notes on Qualitative Analysis.

*Associate Professor Bentley.*

4. *Organic Chemistry*.....3

Recitations three times per week throughout the year with laboratory work, if desired. Bernthsen's Organic Chemistry.

*Associate Professor Bentley.*

5. *Quantitative Analysis*.....4

Laboratory work four afternoons per week. Practice in gravimetric and volumetric analysis. Manual: Thorp.

*Associate Professor Bentley.*

6. *Quantitative Analysis*.....4

Second course. Analysis of agricultural and food products. First term.

*Professor Menke.*

7. *Technical Chemistry* ..... 3

Three times per week throughout the year. A study of industries having chemical principles and processes for a basis. Manuals: Wagner, Sadtler.

*Associate Professor Bentley.*

8. *Physical Chemistry* ..... 3

Chiefly laboratory work; determination of molecular weights according to the various methods in common use; thermochemical work, measurement of electric conductivity of electrolytes; practice with polariscope, refractometer, etc.

*Associate Professor Bentley.*

9. *Assaying* ..... 4

Class meets at convenience of the instructor. Preparing and testing reagents, making cupels, etc., and assaying samples of furnace and mill products. Second term.

*Professor Menke.*

10. *Toxicology* ..... I

Once a week throughout the year. A working knowledge of qualitative and quantitative analysis is a condition requisite for admission to this class.

*Professor Menke.*

11. *Gas Analysis* ..... I

Practical work once a week throughout the year. This course is designed particularly for technical students.

*Professor Menke.*

12. *Metallurgy* ..... 3

Three times per week. First term.

*Professor Menke.*

13. *Water Analysis* ..... 3

One term, three times per week, for civil engineering students.

*Professor Menke.*

14. *Electro-Chemistry* ..... 3

Three times per week the first term. For Junior electrical engineering students.

*Associate Professor Bentley.*

#### PHYSICS.

1. *General Physics* ..... 3

Recitations twice and laboratory work once per week throughout the year. Recitations and experimental lectures on mechanics, sound, heat, light, magnetism, and electricity.

Required for Sophomore B. S., and Engineering students.

*Professor Menke.*

2. *Electricity and Magnetism* ..... 3

Recitations twice and laboratory work once per week throughout the year. Text-book: Silvanus Thomson's Electricity and Magnetism.

Required for Sophomore E. E. students.

*Professor Menke.*

3. *Physical Measurements* ..... 2

Measurements in mechanics, sound, heat, light, magnetism, and electricity. Manual: Sabine.

*Associate Professor Bentley.*

#### BIOLOGY.

J. F. McNEILL, Professor.

##### BIOLOGY.

1. *Organic Evolution* ..... 2

Lectures twice a week for the second term.

##### BOTANY.

2. *General Botany* ..... 3

Laboratory work six hours a week for the first term. Text-book: Atkinson's Elementary Botany.

3. *Systematic Botany*.....3

One lecture a week for the first half of the second term, with four hours of laboratory work. Six hours a week laboratory work for the remainder of the term. Designed to give students a general knowledge of the classification of plants and a more particular acquaintance with the seed plants and ferns of Northwest Arkansas. Text-book: Gray's Manual of Botany.

## ZOÖLOGY.

4. *General Zoölogy*.....3

One recitation and four hours laboratory work per week. A general course in animal morphology and systematic zoölogy. Text-book: Hertwig's Essentials of Zoölogy. Laboratory Guide: Kingsley's Comparative Zoölogy.

5. *Systematic Zoölogy*.....2

Laboratory work four hours per week throughout the year. This course is intended to give students a general knowledge of the vertebrates, especially of mammals, birds, and reptiles of the Mississippi Valley. Laboratory Guide: Jordan's Manual of Vertebrates.

6. *Taxidermy* ..... I

Laboratory work two hours per week throughout the year. This course is intended to enable students to prepare mammals, and bird skins for laboratory and museum specimens.

7. *Vertebrate Anatomy*.....3

Recitations twice per week and dissection of typical vertebrates. Text-book: Weidersheim's Anatomy of Vertebrates.

8. *Animal Histology*.....5

Two recitations and six hours in the laboratory per week, first term. Open only to students who have taken course 4. Text-book: Schafer's Essentials of Histology. Offered only in even years.

9. *Embryology* ..... 5

Recitations twice, and laboratory work six hours per week, second term. Open only to students who have taken course 4. Text-book: Foster and Balfour's Elements of Embryology.

Offered only in odd years

## ENTOMOLOGY.

10. *General Entomology* ..... 3

Recitations twice, and laboratory work four hours per week. Designed to give a general knowledge of the structure, habits, and classification of insects and a more particular knowledge of the orders Orthoptera and Lepidoptera. Text-books: Comstock's Laboratory Guide; French's Butterflies of the Eastern United States, and other manuals.

11. *Economic Entomology* ..... 3

This course is a continuation of 10, and must follow it. The systematic work for each student will be restricted to one order or family of which he will be expected to make a special study. Special attention will be given to breeding and rearing of insects, and to working out the life histories of those species that are little known.

## GEOLOGY AND MINERALOGY.

A. H. PURDUE, Professor.

In arranging the courses in Geology, an attempt has been made to meet the needs of those students who wish to become well grounded in the elements of both the scientific and the practical phases of the subject, and at the same time of those who wish only a brief general culture course. The courses

meeting the latter need are numbers 1 and 2. While the other courses are offered specially for those making Geology a major, they can be taken with advantage by anyone who has had course 2.

1. *Physical Geography and Surface Geology* . . . . . 3  
*(a)* Recitations three hours a week during the first term, with special attention to atmospheric and oceanic phenomena. Authors: Davis, Ferrel, Tarr, and Waldo.  
*(b)* Recitations and lectures three times a week during the second term on the origin of topographic features, with special attention to the development of streams and stream features, and to Glacial Geology. Scott's Introduction to Geology is used as a text, but extensive outside reading is required.
2. *General Geology, Continental Evolution, and Economic Geology* . . . . . 3  
*(a)* Structural and Dynamic Geology. Recitations and lectures three times a week during the first term. Text: Scott's Introduction to Geology, with outside reading.  
*(b)* Continental Evolution. Twelve lectures, with collateral reading three hours a week during a part of the second term, on the Evolution of the North American Continent.  
*(c)* Economic Geology. Lectures, with collateral reading, three hours a week, following Course *(b)*, on the Formation, Modes of Occurrence, Uses and Geographic Distribution of ore deposits.
3. *Practical Geology* . . . . . I  
Field and laboratory work two hours a week throughout the year, with the construction of geological maps and sections, topographic maps, and relief maps.
4. *Paleontology* . . . . . 3  
Laboratory work, six hours a week throughout the year, on the determination of fossil organisms.

5. *Crystallography and Mineralogy* . . . . . 2

(a) Lectures and recitations two hours a week during the first six weeks on the elements of Geometrical Crystallography. Text: Williams's Elements of Crystallography.

(b) Laboratory work (two hours) twice a week following course (a) and extending through the year. Determination of minerals before the blowpipe, and in the wet way. Text: Determinative Mineralogy, Brush.

6. *Field and Special Courses* . . . . . 3

Students electing Geology as a major will be expected to spend sufficient time in the field for the careful investigation of local geological problems, and to present acceptable theses on the work done. It is advised that the field work be done in connection with the University Geological and Biological Survey (see page 46). Special courses will be arranged for those who wish to elect work in addition to what is required.

# The Normal Course.

JUNIUS JORDAN, Professor.

Section 6974 of the Revised Statutes of the State is as follows: "The State Superintendent of Public Instruction shall have power to grant State certificates, which shall be valid for life, unless revoked, to any person in the State who shall pass a thorough examination in all those branches required for granting county certificates, and also in algebra and geometry, physics, rhetoric, mental philosophy, history, latin, the Constitution of the United States, and of the State of Arkansas, natural history, and the theory and art of teaching."

This course includes all the branches required for a State certificate in accordance with the law, and leads to the degree of Licentiate of Instruction (L. I.). After completing the Normal Course, students may take up in the Junior class the work of any course for which they may be prepared, and compete for the corresponding degree.

FRESHMAN YEAR.	Hours per week.
English 1 .....	3
Latin 1 .....	3
Mathematics, Geometry, and Algebra.....	3
Botany 1.....	3
Pedagogics 1 and 2 .....	5

SOPHOMORE YEAR.	
English 2 .....	3
Mathematics 1 .....	3
General History .....	3
Physics 1 .....	3
Pedagogics 3 and 4 .....	5

## PEDAGOGY.

PROFESSOR JORDAN.

The graduates of the University fill many of the best educational positions in the State. The demand for trained teachers is increasing, and the facilities heretofore afforded at this State school have been enlarged so as to meet the necessity. In addition to this, the incitement to higher professional ideals, consequent upon the county normal system, has made it important that provision be made to improve the skill and power of those teachers who prefer to study Pedagogics within the conditions that confront us in our own State.

Besides the requirements of greater efficiency in teachers of the ungraded schools, there is a marked demand for increased power in the principals of our high schools, and greater skill in supervision in our special school districts. It is no credit to the State that such material is usually sought and found beyond our borders.

The Department of Pedagogy was organized by the Board of Trustees to provide the course of study and work that is necessary.

1. To increase skill and efficiency in organization, methods, management, and teaching in our rural, or ungraded schools.
2. To qualify teachers for the higher grades embodied in the studies necessary for State license.
3. To prepare teachers for professional skill in supervision, either as principals or superintendents.

4. To give increased scope and development to our secondary schools.

5. To elevate and maintain a greater pride and professional standard within our own borders.

The full course of Pedagogics will embrace the following subjects, supplemented by collateral readings and lectures:

Methods and Management.

Organization and Teaching.

Psychology as applied to Education.

Theory and Art in Primary Schools.

Paidology.

Practice Methods with Model Classes.

School Supervision.

School Architecture, Sanitation, and Hygiene.

History and Science of Education.

Comparative methods—European and American.

Ancient and Modern Systems Compared.

History of Educational Epochs and Reformers.

Effects on Modern Civilization, caused by the improved science and art of Pedagogy.

Ethics of the Schoolroom and of the Profession.

Ethics—Personal, Social, National.

Physiological—Psychology.

Lectures and Experimental Work in Neurology.

History of Education in the United States.

History of Education in Arkansas.

Comparative Systems in the States.

Arkansas School Laws.

School Laws of the Various States.

The Department of Pedagogy is correlated with the work necessary for the degree B. Ph., and on the completion of the Normal course, students may continue Junior work in this course.

## DEPARTMENT OF PEDAGOGY.

PROFESSOR JORDAN.

1. *Elements of Psychology and Pedagogy.*

Three times a week with lectures. Readings: Lives of Pestalozzi and Horace Mann. 3

2. *Teaching and Organization.*

Methods and Management twice a week. Readings: King's School Interests and Duties; History of Education in Arkansas. 2

3. *Applied Psychology.*

Lectures on Pedagogy; three times a week. System and Science of Methods. Practical work with model classes. 3

4. *History of Pedagogy.*

Educational Epochs and Reformers; twice a week. Ethics, as to personal and relative rights and duties. Ethics of the schoolroom, and Professional Ethics; once a week. 2

5. *Hill's Psychology.*

Psychological Foundations of Education, three times a week. Lectures on Neurology, with experiments and investigations in the department of Biology. Reading: Boone's History of Education in the United States. 3

6. *History of Education.*

Ancient and Modern Science of Education; twice a week. Studies in Education, Hinsdale. Arkansas School Law. 2

7. *Teaching and Organization with Special Reference to Secondary Schools.*

Barnett's School Supervision; three times a week. Architecture, Sanitation and Hygiene; once a week. 3

8. *Modern Educational Development.*

European and American systems compared. Effects on modern civilization of the improved standards of Peda-

21

gogics. Comparative study of the school laws of the various states; three times a week.

On the completion of the full course in Pedagogics, students will be required to write a treatise on the Public School System of Arkansas. Defects of the school law and how remedied. Educational development in the State.

## PHILOSOPHY.

PROFESSOR JORDAN.

The course offered in this Department, consists of recitations, lectures, and free and full discussions by the members of the class. In connection with a careful examination of the views and opinions of leading thinkers, students are encouraged to study their own mental phenomena and to subject to the test of individual consciousness the various theories which come under investigation. Due attention is given to the recognized contributions of modern Physiology to Psychology.

As introductory to this part of the subject, the Professor of Biology, gives a course of lectures with accompanying laboratory work in Neurology, which all students whose course includes Pedagogy and Psychology are required to attend during a part of the second term in Sophomore Pedagogics, and Junior work for the University degrees.

## PSYCHOLOGY.

1. Study, investigation, and discussion of the various mental phenomena as involved in the intellectual processes of Knowing, Feeling, and Willing. An examination of

the various theories of consciousness, as set forth by European and American Philosophers. Text-books: Hill, Ladd's Outlines of Descriptive Psychology. Application of principles to Education. Three times a week.

2. *Logic.*

Text-book: Hyslop. Reference books: Mills, Bain, Hill's Jevons. Twice a week.

3. *Elements of Ethics.*

Comparative Ethics. The bearing on the moral standard of the theories of Evolution, Sociology, Biology, Economics, and Political Economy. Three times a week.

4. *History of Philosophy.*

An outline of the Ancient, Mediæval and Modern theories. The history of European morals from Charlemagne to the present time. The development of Ethics in the progress and economics of the national life of the United States. Three times a week.

## MECHANICAL ENGINEERING.

CHAS. E. HOUGHTON, Professor and Superintendent of Mechanic Arts.

MACK MARTIN, Machine Shop, Forge Shop, Assistant Superintendent of Mechanic Arts.

B. N. WILSON, Wood Shop, Foundry.

Two courses are offered, a four years' course leading to the degree of B. M. E., and a short course of two or three years, depending on the preparation of the student.

While the major part of a course in mechanical engineering necessarily consists of scientific and

technical studies, the four years' course provides for instruction in English and the modern languages, and offers electives that may be taken in other than technical subjects.

Besides the mathematical and scientific studies which constitute the necessary preparation for the study of the engineering branches, instruction is given in mechanics, machine design, theory of steam and gas engines, etc. Special attention is given to the practical application of the truths and theories taught in the classroom, a large part of the time being devoted to shop work, drawing, and laboratory practice.

Sufficient instruction is given in the theory and use of electrical machinery to enable the student to use it intelligently.

In the second term of the Senior year the student is offered an elective in the branch of mechanical engineering in which he wishes to specialize.

1. *Shop Work*. . . . . Hours as assigned.

- (a) *Woodworking*. Principles of carpentry and joinery; exercises in wood turning.
- (b) *Founding*. Green sand moulding. Melting and pouring brass and iron.
- (c) *Forging*. Management of fire; drawing and welding; riveting and tempering; casehardening and annealing.
- (d) *Patternmaking*. Practice in making patterns; care and use of woodworking machinery.
- (e) *Ironworking*. Chipping, filing, turning, planing, drilling, grinding; erection of machinery.
- (f) Advanced work in any of the above courses.

2. *Mechanical Drawing.*

Geometrical drawing; copying machine drawings; working drawing from machine parts; tracing; blue printing. One year, four hours per week.

3. *Machine Design*.....3

Kinematics of machinery; design of gear teeth, cams, link motions, etc. Two hours recitation per week; two hours drawing, first term. One hours recitation; four hours drawing per week, second term. Text-book: Machine Design, Smith.

4. *Mechanics and Hydraulics*.....4

Statics and dynamics; strength of materials; hydraulics. Four recitations per week for one year. Text-book: Mechanics of Materials and Hydraulics, Merriman.

4. (a) *Strength of Materials*.....3

An elementary course in the application of mechanics to the materials used in machine construction; the determination of stresses in machine parts. Text-book: Strength of Materials, Merriman. Three recitations per week for one year.

5. *Steam Machinery*.....3

Elementary thermodynamics; history of the steam engine; comparison of types of steam engines, boilers, pumps, etc., valve gears. Text-books: Steam Engine, Ewing; Valve Gears, Halsey. Three recitations per week, second term.

6. *Experimental Engineering*.....2

Calibration of engineering instruments, indicators, steam gauges, planimeters, nozzles, weirs, etc.; tests of the materials of construction in tension, torsion, compression, and bending; complete engine and boiler trials; special investigations. Text-book: Experimental Engineering, Carpenter. Four hours per week for one and one-half years; begins the second term.

7. *Steam and Gas Engines*.....6  
Thermodynamics; theory and design of steam engines and boilers; theory of gas and oil engines; problems in engine and boiler design. Text-books: The Steam Engine, Ewing; The Gas and Oil Engine, Clerk. Three recitations and six hours drawing per week, first term.
8. *Locomotive Mechanism*.....2  
A study of locomotive boilers, cylinders, frames, etc.; valve setting; compound locomotives; air brakes, etc. Text-book: Catechism of the Locomotive, Forney. Two recitations per week, first term.
9. *Cotton Gins, Compresses and Oil Machinery*.2  
Lectures on the machinery now in use and discussion of improvements. Two hours per week, first term.
10. *Refrigerating Machinery*.....2  
Comparison of the machinery used in the different systems; methods of ice making; cold storage. Two lectures per week, second term.
11. *Heating and Ventilating*.....2  
Principles of Ventilation; the different systems of heating, by steam, hot water, and air; specifications. Text-book: Heating and Ventilation, Carpenter. Two hours per week, second term.  
[Courses 10 and 11 will not both be given in the same year; they may be taken together as one two-hour course.]
12. *Hydraulic Machinery*.....2  
A study of the design, construction, and operation of water wheels and pumping machinery. Two recitations per week, second term.
13. *Steam Engineering*.....4  
Mechanical engineering of power plants; selection of machinery for the equipment of power stations; plans and

specifications. One lecture, and six hours drawing per week, second term.

**14. Machinery and Mill Work.....4**

Discussions of the different methods of distributing power in mill work; considerations controlling the design of the power plant; specifications. One hour lecture, and six hours drawing per week, second term.

**15. Railroad Engineering.....4**

Design and construction of locomotives; repairs for rolling stock; discussion of the problems relating to the mechanical engineering of railroads. One hour lecture, and six hours drawing per week, second term.

The department reserves the right to withdraw any course not elected by four or more students.

**COURSE IN MECHANICAL ENGINEERING FOR  
DEGREE OF B. M. E.**

FRESHMAN YEAR.	Hours per week
Mathematics 1 and 2 .....	5
English 1 .....	3
Physics 1.....	3
Mechanical Drawing, M. E., 2 .....	2
Shop Work, M. E., 1 d, c .....	3
Total .....	<hr/> 16

**SOPHOMORE YEAR.**

Mathematics 4 and 5 .....	5
Chemistry 1.....	3
* Descriptive Geometry, C. E., 1 .....	2
† Electrical Measurements, E. E., 2 .....	}
Physics 2.....	3
Shop Work, M. E., 1 c.....	3
Total .....	<hr/> 16

\* First term.

† Second term.

## JUNIOR YEAR.

Mathematics 6.....	3
* Dynamo Electrical Machinery, E. E., 6 }	3
† Steam Machinery, M. E., 5 .....	3
* Electrical Laboratory, E. E., 5.....}	2
† Experimental Engineering, M. E., 6 }.....	2
Hydraulics and Mechanics, M. E., 4.....	4
Machine Design, M. E., 3.....	3
Shop Work, M. E., 1b. and f.....	2
Total .....	17

## SENIOR YEAR.

* Steam and Gas Engines, M. E., 7 .....	6
† Refrigerating Machinery, M. E. 10, or }	2
† Heating and Ventilating, M. E., 11, and }	2
† M. E. 13, 14, or 15.....	4
* Locomotive Mechanism, M. E., 8, or }	2
* Cotton Gins, Compresses, etc., M. E., 9 }	2
† Hydraulic Machinery, M. E., 12.....	2
Experimental Engineering, M. E., 6.....	2
* Electrical Laboratory, E. E., 5 }	2
† Electrical Railroads, E. E., 9 .....	2
Modern Language .....	3
Elective.....	3
Thesis .....	..
Total .....	18

## MECHANIC ARTS COURSE.

This course is designed to meet the wants of two classes of students:

First. Those who are not able to spend the time required for the completion of the four years' course.

Second. Those who lack the necessary preparation for admission to collegiate classes, and do not wish to become candidates for a degree.

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\* First term.

† Second term

Special attention is given to instruction in shop work and drawing, sufficient time being given to the former to enable a student to become familiar with all its branches, and acquire proficiency in some chosen one. The time spent in the drawingroom will enable the student to make and understand machine drawing.

In the last year the technical instruction is designed to give such an elementary knowledge of mechanics, machine design, and steam machinery, as will enable the student to use and care for machinery intelligently. No diploma is awarded, but a certificate of proficiency will be given on the completion of the course.

	FIRST YEAR.	Hours per week	
Mathematics, second year (preparatory).....	5		
English, first or second year (preparatory).....	4		
M. E., 1 Shop work.....	6		
	15		
	SECOND YEAR.		
Mathematics 1 and 2.....	5		
Physics 1 .....	3		
M. E., 2 Mechanical Drawing.....	2		
M. E., 1 Shop Work.....	6		
	16		
	THIRD YEAR.	First term.	Second term.
M. E., 3 Machine design.....	3		..
M. E., 5 Steam Machinery.....	..		3
M. E., 4a Strength of Materials.....	3		3
M. E., 1 Shop Work.....	6		6
E. E., 6 Electrical Machinery.....	3		..
E. E., 5 Electrical Laboratory.....	2		..
M. E., 6 Experimental Engineering...	..		2
E. E., 1 Dynamo Management.....	..		2
	17		16

## CIVIL ENGINEERING.

J. J. KNOCH, Professor.

The design of this department is to furnish a course of theoretical instruction, accompanied by illustrations and as much of engineering practice as can well be taught in schools. This course will give the student a knowledge of the fundamental principles required to enter intelligently upon the various branches of engineering belonging to this profession.

The special technical studies, which are offered in this course, may be grouped under the heads of Surveying, Applied Mechanics, Road and Railroad Engineering, Hydraulic Engineering, Bridge Engineering, and Sanitary Engineering.

*Instruction.*—The work in Surveying extends over three years. It embraces land surveying, leveling and United States public land surveys during the Sophomore year; topography, railroad reconnaissance and location during the Junior year; triangulation and geodesy during the Senior year. Much time is devoted to practice in the field and drafting room, this work being carried on parallel with the classroom work. Each year a party of engineering students go into camp one week for practice in surveying and locating railway lines.

- |  |   |
|--|---|
| 1. <i>Descriptive Geometry</i> .....   | 2 |
| Recitation and practice, first term. Text-book: Church's Descriptive Geometry. |   |

2. *Surveying* ..... 3

First, and part of second, term. Care, use, and adjustment of instruments; use of chain, tape, compass, transit, solar attachment, level, sextant, and plane table; land surveying, leveling, contouring, laws and instructions relating to surveys of the public domain. Text-book: Raymond's.

3. *Field Practice* ..... 2

Exercises in land, city, and topographical surveying.

4. *Highways* ..... I

One hour per week, second term. The location, construction, and maintenance of common, Macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. Text-book: Spalding's Roads, Streets and Pavements.

5. *Railroad Engineering* ..... 2

Two hours per week throughout the year. Preliminary surveys and location; transition curves, yards and turn-outs; estimates of earthwork and material used in construction; the economics of railway location and management. Text-books: Searle's Field Engineering, and Crandall's Transition Curve and Earthwork Computations, first term; Wellington's Economic Theory of Railway Location, second term.

6. *Field Practice* ..... 2

Location of curves, turnouts, and Y's; measurement of embankments and cuts, and computation of volumes.

7. *Railroad Survey*.

One week, twelve hours per day. Actual field practice in reconnaissance, preliminary survey, and location.

8. *Drawing* ..... 2

Lettering titles for maps and drawings. Pen and colored topography.

8. (*a*) *Drawing*..... 2

Lectures and practice two afternoons a week throughout the year. Shades, shadows, and perspective. Topographical and railroad maps from actual surveys.

9. *Masonry Construction*..... 2

Two hours per week, first term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs and caissons. Text-book: Baker's Masonry Construction.

10. *Roofs and Bridges*..... 3

Four hours per week, first term; two hours, second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of material for a roof truss and railroad bridge. Text-books: Merriman and Jacoby's Roofs and Bridges, Parts I and II.

11. *Sanitary Engineering*..... 2

Two hours per week, second term. Calculation and special details of construction of sewers, separate and combined systems of sewerage; purification of sewerage; municipal and domestic sanitation. Text-book: Bau-meister's Cleaning and Sewerage of Cities.

12. *Technical Drawing*..... 2

Lectures and practice, four hours per week throughout the year. Right and oblique arches; masonry dams; structural details and working drawings for designs.

13. *Waterworks Engineering*..... 2

Two hours per week, second term. Study of systems of water supply; collection, purification, and distribution of water; location of waterworks, with details of estimate of cost. Text-book: Fanning's Hydraulic and Water Supply Engineering.

14. *Engineering Laboratory*..... 2

Two hours per week, second term. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone, and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs.

15. *Field Practice*..... 2

Two hours per week, first and second terms. Topographical survey, triangulation, and leveling.

### COURSE IN CIVIL ENGINEERING FOR DEGREE OF B. C. E.

## FRESHMAN.

Mathematics 1.....	3	Mathematics 4, 5.....	5
Mathematics 2.....	2	C. E. 2, 3.....	3
Chemistry 1.....	3	Physics 1.....	3
English 1.....	3	English 2.....	3
C. E. 8.....	2	C. E. 1, 1st term.....	2
M. E. 2.....	2	C. E. 4, 2nd term.....	1

## JUNIOR.

Mathematics 6.....	3	C. E. 16.....	2
M. E. 4.....	4	C. E. 13.....	2
C. E. 5.....	2	C. E. 11, 1st term.....	2
C. E. 6.....	2	Geology 5, 2nd term.....	2
M. E. 6, 2nd term .....	1	C. E. 15, 1st term.....	2
M. E. 5, 2nd term.....	3	C. E. 14, 2nd term.....	2
C. E. 8 a.....	2	C. E. 9, 1st term.....	2
Geology 2.....	2	C. E. 10.....	4 and 3
or Chemistry 13 } 1st term. 4		M. E. 12, 2nd term.....	2

11	Elective.....	3
	Thesis.....	

## ELECTRICAL ENGINEERING.

W. N. GLADSON, Professor.

Two courses of instruction are offered. The four years' course is intended to afford a good gen-

eral education, and at the same time to ground the student so thoroughly in the principles of Electrical Engineering as to furnish a good foundation for the profession.

Theoretical and applied electricity and the mechanics of engineering are naturally the leading subjects.

Theory is amply treated and tested by experiments in well equipped laboratories, thus affording the student a degree of facility in the use of instruments and machines, which is acquired only by continued practice. As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of special study. The subject of such study must lie within the field of Electrical Engineering. It must be announced not later than the beginning of the second term of the senior year, and be approved by the Professor in charge. The completed thesis must be submitted not later than two weeks before commencement day, and one copy must be deposited in the Library as the property of the University.

The short course, of two years, is designed for students lacking time and preparation for the full course, and is intended especially for those students who have had some practical experience in engineering. The work is more elementary than in the long course, embracing only the necessary mathematics, which with physics, electrical engineering and laboratory work, gives the student sufficient theory, supplemented by practice, in the shortest possible time.

This course prepares students for practical work, such as superintending or managing lighting, power, or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of the work.

1. *Practical Management of Dynamos and Motors* ..... 2  
Recitations. Second term, two hours a week. A practical treatise on installing, starting, testing, locating, and remedying faults in dynamos and motors. Text-book: Crocker & Wheeler's Practical Management of Dynamos and Motors.
2. *Electrical Measurements* ..... 2  
Recitations and practice twice a week, first term. Text-book: Electrical Measurements by Carhart and Patterson.
3. *Technical Drawing* ..... 2  
Lectures and practice two afternoons a week throughout the year. Working drawings of electrical apparatus; wiring plans designed by student.
4. *Technical Drawing* ..... 3  
Lectures and practice six hours a week throughout the year; an extension of Course 3, and must be preceded by it. Drawings of circuit and machine, electrical calculations, and mechanical designs of electrical machinery; complete power plants designed by student.
5. *Electrical Laboratory* ..... 2  
One afternoon a week throughout the year. An extended course in magnetic and electrical measurements; current, electro-motive force, and resistance; use and calibration of instruments, voltmeters, and potentiometers; exploration of magnetic fields; dynamo work begun.

6. *Electrical Laboratory*.....4  
 Two afternoons a week throughout the year. This is an extension of Course 5, and must be preceded by it. A full experimental course in operating and testing direct and alternate current machines; Photometry transmission, storage, and transformation of electric energy. Special courses given suited to the preparation and object of the student.
7. *Dynamo Electrical Machinery*.....3  
 Recitations. Three hours a week throughout the year. Confined chiefly to direct current apparatus, including types of motors, generators, and transformers; design, calculations, construction, testing, and operating. Text-book: Thompson's Dynamo Electric Machinery.
8. *Theory of Alternate Currents*.....2  
 Recitations twice a week, first term. Text-book: Steinmetz.
9. *Polyphase Electric Currents*.....2  
 Recitations and lectures twice a week, second term. Text-book: Thompson.
10. *Electric Railways*.....2  
 Recitations and lectures twice a week, second term.
11. *Telephony and Telegraphy*.....2  
 Lectures and recitations twice a week throughout the year. Text-book: Preece's Telephone.

### COURSE IN ELECTRICAL ENGINEERING FOR THE DEGREE OF B. E. E.

	FRESHMAN.	Hours per week
Mathematics 1, 2.....	.....	5
English 1.....	.....	3
Physics 1.....	.....	3
M. E. 2 Mechanical Drawing .....	.....	2
M. E. 1 c, d Shop Work.....	.....	3

16

# UNIVERSITY OF ARKANSAS

## Electric Engineering.

101

SOPHOMORE.	Hours per week
Mathematics 4, 5.....	5
Physics 2.....	3
Chemistry 1.....	3
C. E. I. Descriptive Geometry and } E. E. 2 Electrical Measurements }	2
M. E. 1 e Shop Work .....	3

## JUNIOR.

Mathematics 6.....	3
E. E. 7 Dynamo Electric Machinery .....	3
E. E. 5 Electrical Laboratory .....	2
E. E. 3 Technical Drawing .....	2
M. E. 4 Mechanics and Hydraulics.....	4
M. E. 5 Steam Machinery and } Chemistry 14 .....	3

## SENIOR.

E. E. 8 Alternate Current Theory and } E. E. 9 Polyphase Electric Currents .....	2
E. E. 6 Electrical Laboratory .....	4
E. E. 4 Technical Drawing .....	3
E. E. 11 Telephony and Telegraphy .....	2
M. E. 6 Mechanical Laboratory and } E. E. 10 Electric Railways .....	2
German 1 or } French 1 or .....	3
Spanish 1 .....	2
Elective.....	2

## SHORT COURSE IN ELECTRICAL ENGINEERING.

### FIRST YEAR.

Mathematics 1, 2.....	5
Physics 1.....	3
M. E. 2 Mechanical Drawing .....	2
M. E. 1c, d, e, Shop Work.....	3
Elective.....	3

### SECOND YEAR.

E. E. 6 Dynamo Electric Machinery .....	3
E. E. 5 Electrical Laboratory .....	2
E. E. 3 Technical Drawing .....	2
E. E. 1 Management of Dynamos and Motors, second term.....	2
Physics 2.....	3
M. E. 4a Strength of Materials.....	3
Elective.....	3

## DEPARTMENT OF AGRICULTURE.

C. L. NEWMAN, Professor.

The degrees conferred upon the satisfactory completion of this course are Bachelor of Scientific Agriculture and Bachelor of Science. A two years' course is provided for students who cannot remain to complete the full course.

Agriculture is both a science and an art, and the course of instruction is so mapped out that the student may master both the principle and the practice of the industry that gives employment to three-fourths of the State's inhabitants. The student is encouraged to discover, plan, and execute for himself; and his daily association with specialists keeps him abreast with the many sciences which compose the conglomerate science of agriculture.

Manual labor is required of students only for purposes of instruction and illustration. While each student is expected to be proficient in the use of both farm tools and machinery, it is not proposed to make a farm laborer of him, but a director of farm labor.

### 1. *Introduction.*

Definition of scope of subject; relation to science, history, etc.

#### (a) *Soils.*

Origin, classification, properties, relation to climate and crops; drainage; irrigation; hygiene and general management of soils; special management for special purposes.

(b) *Farm Crops.*

Farm manures and germ manuring; preparation and culture; food-plants, forage and hay plants, root crops, pastures; textile, oil and sugar plants; harvesting.

2. (a) *Farm Buildings, Machinery and Tools.*

Construction and management of stables, barns, dairies, silos, pigeries, sheepfolds, poultry houses; farm fences and roads. Management and utility of farm machinery and tools.

(b) *Zootechny.*

Breeds and breeding of horses, cattle, sheep, swine, goats, poultry, etc., and their specific and general management; aviculture; pisciculture; insecticides.

3. *Rural Economy.*

Farm rules and management; hired labor; farm accounts; markets and marketing; meteorology.

## AGRICULTURE, B. S.

## FRESHMAN.

Mathematics 1.....	3	Mathematics 3.....	3
German 1.....	3	German 2.....	3
English 1.....	3	English 2.....	3
Chemistry 1.....	3	Physics 1.....	3
Botany 2 and 3.....	3	History or Economics.....	2
		Agriculture 1.....	3

## SOPHOMORE.

Mathematics 3.....	3
German 2.....	3
English 2.....	3
Physics 1.....	3
History or Economics.....	2
Agriculture 1.....	3

## JUNIOR.

## SENIOR.

History or Economics.....	3	English 6 .....	1
English 4.....	2	Philosophy.....	3
Chemistry, Agricultural....	3	Horticulture 1.....	3
Bacteriology and Hygiene..	2	Agriculture 3.....	2
Agriculture 2.....	2	Elective.....	6
Elective .....	5		

**AGRICULTURE, B. S. A.**

FRESHMAN.		SOPHOMORE.	
Mathematics 1.....	3	Mathematics 3.....	3
English 1.....	3	English 2.....	3
Chemistry 1.....	3	Physics 1.....	3
Botany.....	3	History or Economics.....	2
ShopWork.....	2	Horticulture 1.....	3
Drawing.....	1	Agriculture 1.....	3
JUNIOR.			
English 4.....	2	English 6.....	1
Chemistry, Agricultural.....	3	Philosophy.....	3
Bacteriology and Hygiene..	2	Horticulture 2 .....	3
Biology.....	3	General Entomology.....	3
or Geology 1 or 2..... } .....	3	Agriculture 3.....	2
Agriculture 2.....	2	Elective .....	4
Elective.....	3		
SENIOR.			

**DEPARTMENT OF HORTICULTURE.**

JOHN T. STINSON, Professor.

1. (a) *Orcharding and Small Fruits* ..... 3  
First term. A study of the fruits best adapted to the State, their culture, marketing, etc.
- (b) *Propagation of Plants*.  
First half of second term. General nursery work—budding, grafting, and general care of nursery stock.
- (c) *Vegetable Gardening*.  
Last half of second term. A study of the leading vegetables adapted to the State, forcing vegetables and general gardening with practical work in growing vegetables for market.
2. (a) *Physiology of Plants* ..... 3  
First term. The study taken up from a horticultural standpoint.

(b) *Plant Breeding.*

Second term. Crossing of plants, originating new varieties, plant variation, etc.

(c) *Spraying Plants.*

For fungus diseases and injurious insects. Twelve exercises.

3. (a) *Experiment Work With Fruits . . . . . 2*

And a study of the evolution of fruits and vegetables.  
First term.

(b) *Forestry.*

Second term. A study of the forestry of the State from an economic standpoint. Landscape work.

## HORTICULTURE.

FIRST YEAR.	SECOND YEAR.
Algebra, 2nd year.....	Algebra 1..... 2
Geometry, 2nd year .....	Geometry 2..... 3
General History, 2nd year..	General Chemistry 1..... 3
Rhetoric, 2nd year.....	English 1..... 3
Freehand Drawing*.....	Botany 1..... 3
Botany\$ .....	Shop Work, Wood Work.. 2
Bookkeeping* .....	
Commercial Law \$.....	

## THIRD YEAR.

## FOURTH YEAR.

French, German or Latin... 3	French, German, or Latin. 3
Physics 1‡..... 3	Economics 1..... 2
Agricultural Chemistry.... 3	Geology 1 ..... 3
Horticulture 1..... 3	Economic Entomology.... 3
Agriculture *..... 3	Horticulture 2..... 3
	Elective ..... 3

\* First half year.

§ Second half year.

‡ By special arrangement students may take biology.

## AGRICULTURAL CHEMISTRY AND METEOROLOGY.

G. L. TELLER (Experiment Station).

- |   |   |
|---|---|
| 1. <i>Agricultural Chemistry</i> .....  | 3 |
| A study of the chemistry of soils; the chemical composition of manures and fertilizers and their relation to different soils and the crops grown thereon; the composition of different animal foods and effects of the different constituents of food upon the maintenance, growth, and development of animals and upon their products; the nature and composition of milk, butter, cheese, and other products of the farm; the chemistry of fermentation in its relation to the manufacture of bread, cider, wine, vinegar, etc. |   |
| 2. <i>Meteorology</i> .....   | 3 |
| A study of winds, storms, rainfall, and changes of temperature in soils and air; weather forecasts; relation of weather and climate to plant growth and preservation. Opportunities will be given for the students to become familiar with the instruments used in making and recording weather observations.   |   |

## HYGIENE AND BACTERIOLOGY.

R. R. DINWIDDIE (Experiment Station).

- |  |   |
|--|---|
| 1. <i>Hygiene</i> .....  | I |
| SECOND TERM—Elementary rural hygiene, including a discussion of the causes and modes of preventing transmissible diseases of domestic animals. |   |
| 2. <i>Bacteriology</i> .   |   |
| FIRST TERM—A study of the bacteria in their relation to Agriculture and Horticulture. Laboratory work four hours a week.                       |   |

## MILITARY SCIENCE AND TACTICS.

Cadet Captain W. A. Ross.

1. *Practical Work* ..... 3

Three hours per week. In school of the soldier, squad, platoon, company, and battalion, close and extended order; ceremonies of grand mounting, dress parade, inspection and review; camping, guard duty, target practice, laying out field works, and signaling. In this work, the cadet officers act as instructors, thus putting into practice the knowledge gained in previous years.

2. *Recitations and Lectures* ..... I

One hour per week. Infantry Drill Regulation (U. S. Army, Part I). Manual Guard Duty (U. S. Army).

3. *Recitations and Lectures* ..... I

One hour per week. Infantry Drill Regulation (U. S. Army, Part II). Small Arms Firing Regulations (Blunt).

4. *Recitations and Lectures* ..... I

One hour per week. Military Field Engineering (Beach). Military Signaling (United States Army Signal Code).

5. *Recitations and Lectures* ..... I

One hour per week. Service of Security and Information (Wagner). Military Law (Winthrop).

## ELOCUTION.

JESSIE L. CRAVENS, Instructor.

The course of instruction comprises a thorough training in the essentials of expression.

1. *Physical Training*.

The course includes thorough drill in (*a*) Light Gymnastics, to promote health and to give vigor and tone;

(b) Athletic Gymnastics (in accordance with the law of Delsarte), for the attainment of grace, precision, and harmony, in action.

2. *Voice Culture.*

(a) Respiration: Natural breathing; economy of breath; drill in deep, effusive, expulsive, and explosive forms, as a basis for voice work.

(b) Voice culture: Exercises for the production and cultivation of open, pleasing, and musical tones; to avoid shrill and loud tones.

(c) Articulation: Correct use of the articulatory organs; exercises upon elementary sounds, separately and in combination; syllabication, accent, and pronunciation; defects of speech.

3. *Expression.*

In Reading, Recitation, and Oratory. Modulation, inflection, emphasis, pitch, quantity and movement; qualities; application of tone effects; light and shade in tone; transitions; pause effects; facial expression; action and repose; naturalness; clearness.

Text-books: The books in use and for reference are Southwick's Elocution and Action, Stebbins's System of Expression, Fulton and Trueblood's Practical Elocution, Hudson's Shakespeare, Werner's Readings and Recitations, etc.

This department is open to all students in the Collegiate classes and to the second year students of the preparatory school. Twice a week for each class.

## MUSIC.

### PIANOFORTE DEPARTMENT.

MR. AND MRS. E. L. BUSCH.

#### *Grade I.*

Clavierschule, H. Wohlfahrt Bellaks Method; Koehler Op., 204; Loeschhorn Op., 186; Gurlitt Op., 178; Reinecke Favorite Melodies, including finger exercises and Scales, Arpeggios, etc.

*Grade II.*

Clementi Op., 36; Kuhlau Op., 55; Doring Etudes; Lemoine Op., 37; Lichner Pieces; Gurlitt Album Leaves; Jadassohn Spring Flowers; Kullack Scenes from Childhood; Spindler Op., 93; Little Dances.

*Grade III.*

Duvernoy Op., 120; Doring Op., 8; Behrens Op., 79; Bertini Op., 100; Loeschhorn Op., 65; Bach Little Preludes; Easy Sonatas by Haydn, Mozart and Beethoven; Schumann Album Op., 68; Reinecke Op., 154; Gade Op., 36; Jensen Op., 33; Löw Arranged Operatic Melodies.

*Grade IV.*

Behrens Op., 61, Books 3 and 4; Alois Schmitt Op., 16; Czerny Op., 299; Krause Op., 9; Bach Preludes; Beethoven, Haydn, Mozart Sonatas, Gade Op., 18; Mendelssohn Songs Without Words; Grieg Op., 3, Op., 17; Jensen Wanderbilder, Kirchner Album Leaves, Modern and Popular Music.

*Grade V.*

Cramer Studies, Czerny Op., 740; Bach Well Tempered Clavichord, Steibelt 78; Weber Rondo in Eb.; Sonatas by Hummel, Scarlatti, Beethoven, Schumann Op., 32; Schubert Op., 94; Schumann, Chopin, Heller, Henselt, etc.

*Grade VI.*

Clementi Studies, Moscheles Op., 70; Beethoven, Liszt, Thalberg, Scharwenka, Tausig, Rubinstein, Moszkowski, Tschaikowsky, Concertos, Ensemble Music, etc.

Pupils are not confined to any particular years or terms in passing from a lower to a higher grade.

## MUSIC.

## VIOLIN AND ORCHESTRAL DEPARTMENT.

E. L. BUSCH, Director.

*Grade I.*

Mazas Method; Schrader's Technical Exercises; Easy pieces, Scales and Arpeggios in the first position.

*Grade II.*

Mazas Method; Schrader's Exercises; Scales and Arpeggios in more difficult keys and introduction of the third position. Pieces and Studies within the first and third positions.

*Grade III.*

Mazas Etudes Op., 36; Dancla Compositions; Scales and Arpeggios introducing the fifth and seventh positions. Classic and Popular Music within these positions.

*Grade IV.*

Kreutzer Studies; Scales and Arpeggios through all positions. Sonatas, Haydn, Mozart, Beethoven. Viotti Duets; Classical and Popular Music.

*Grade V.*

Fiorillo and Rode Studies; Spohr's Duets. Concertos by Viotti, Rode, Kreutzer and Spohr. Brilliant Duos with Piano, etc.

*Grade VI.*

Solo and Ensemble Music by the best Classic and Popular Composers. Modern Concertos and finishing department.

Harmony, Counterpoint and Composition taught according to Richter, Jadassohn, Oscar Paul and other authorities.

Pupils advanced from a lower to a higher grade without loss of time and are not confined to any particular term or year.

## II. VOICE CULTURE AND VOCAL MUSIC.

MISS GERTRUDE CRAWFORD.

True cultivation of the voice consists in the development of pure tone, and its easy, natural use and control in singing.

Attention is given to respiration as an art applicable to singing; position of mouth and tongue, and control of the face in singing; emission of voice

on vowels; exercises for uniting the registers; practice on sustained tones in the entire range of the voice; exercises in agility and velocity; exercises in articulation of consonants and vowels; study of delivery and expression; the formation of good style, etc.

Garcia's Vocal Exercises, Concone, Bordogni, Marchesi, Panseron, and other technical works; songs of the English, Italian, French, and German Schools; church music; study of opera and oratorio.

#### TERMS.

18 weeks, two lessons per week, Pianoforte and Voice	
Culture, each .....	\$22.50
Harmony in class.....	5.00
Use of pianoforte for practice, one hour daily.....	2.50

Tuition payable in advance.

No deduction will be made except in case of prolonged illness.

Instruction in Guitar and Mandolin playing given.

## ART DEPARTMENT.

MRS. JENNY DELONY RICE, Director.

(Students of the "Beaux Arts for Women" and "Julien" Ateliers, Paris.)

#### *Branches Taught.*

Charcoal, crayon, pencil, pen and ink drawing, oil, water color, pastel, tapestry and china painting.

Special classes in industrial designing and illustrating, ornamental and decorative work.

The Art Club for study and quick sketching meets once a week, when lectures are delivered on Art History.

The full course covers four years, but students will be advanced individually, and no hindrance will be imposed upon those who can complete the course in less time.

#### COURSE OF STUDY.

##### *First Year.*

###### ELEMENTARY DRAWING—Light and Shade.

1. Construction of lines.
2. Drawing in outline from geometric solids.
3. Drawing in outline from casts.
4. Drawing in outline from still life.
5. Study in light and shade.
6. Perspective, theory and applied.

##### *Second Year.*

###### DRAWING AND PAINTING.

1. Still life groups from objects.
2. Landscapes from studies and nature.
3. Fruit, flowers and foliage from nature.
4. Perspective, lights and shadows.
5. Designs for wallpaper, carpets, etc.
6. Historic ornament, decoration.

##### *Third Year.*

###### PAINTING IN OIL, WATER COLORS AND PASTEL.

1. Heads from the cast, shaded.
2. Figures from the antique, shaded.
3. Still life studies in oil, water color or pastel.
4. Fruits and flowers from nature.
5. Landscape from nature and studies.
6. Original composition and design.

##### *Fourth Year.*

###### PORTRAITURE FROM LIFE, FIGURE AND LANDSCAPE PAINTING— BOOK ILLUSTRATION.

1. Portraits from life.
2. Animals, landscape, marine.

3. Interior decoration.
4. Composition, genre subjects.
5. Illustration of books, magazines, etc.
6. Practical and applied design.

## TERMS.

1. Art alone per year.....	\$15.00
Payable first term.....	10.00
Payable second term.....	5.00

Those who pay the tuition fees for the course in Art have the privilege of taking one or more studies in any of the other courses, subject to the approval of the Professor concerned.

2. Students of the University having not less than eight recitation hours per week are not charged for instruction in the Art Department.

Pupils will consult Mrs. Rice with regard to the Department and materials needed.

## TEACHERS' NON-RESIDENT COURSES.

The University offers special opportunities to all teachers in Arkansas. It will admit them to its regular examinations for admission to the Freshman class, or will send the examination questions to county examiners, who will submit them to teachers under the usual rules and return answers to the University. Teachers who pass the required entrance examinations may then matriculate and enter upon non-resident courses of study under the direction of the University Professors; and upon completion of one term's work in any branch, they will be examined upon said work and credited with it, if it comes up to the University standard.

After finishing three-fourths of the course for a bachelor's degree, such teacher-students may graduate by completing the course as regular resident students.

Non-resident study is pursued under disadvantages, and none but energetic and methodical persons, who are willing to practice much self-denial, can succeed in such work. Such courses of study are in many respects less thorough than study under regular instruction at the University. Yet thousands of persons who cannot attend college regularly are thus educating themselves; and the self-reliant habits of study and investigation acquired by successful work of this kind are of untold value.

Teachers accepting this offer must obtain not less than two credits (two subjects passed for one term, or one subject for two terms), each year; else their names will be dropped from the rolls. Teachers whose vacation occurs during the session of the University may supplement their non-resident study by attending the regular classes.

# Preparatory School.

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## INSTRUCTORS.

- W. A. CRAWFORD, Principal, Mathematics.  
G. A. COLE, Mathematics, Physiology and Bookkeeping.  
CENER HOLCOMB, Latin and Mathematics.  
NAOMI J. WILLIAMS, Latin and History.  
MRS. E. W. COLE, History and Mathematics.  
MARY A. DAVIS, English and History.  
LINA REED, English and Latin.  
MACK MARTIN, Machinist Work and Forging.  
B. N. WILSON, Woodwork and Foundry.  
GERTRUDE S. CRAWFORD, Vocal Music.  
E. L. BUSCH, Musical Director.  
ELIZABETH BUSCH, Piano.

The collegiate teachers of the University assist in the Preparatory School whenever needed and it is practicable for them to do so. During the past year the following officers have rendered assistance: W. B. Bentley, Chemistry; S. J. McLean, Civil Government; Junius Jordan, Elementary Pedagogy and School Management.

The Preparatory School is intended, first, to prepare students for any of the courses of study taught in the University; second, to furnish to those who cannot take a more extended course, as good a general education as the limited time will permit; third, to prepare teachers for the public grammar schools of the State. To secure these ends, four courses of study are offered, viz: Arts (A), Engineering (E), Science (S), and Teaching (T).

The course in Pedagogy, School Management and Methods, has been arranged for students of mature age who cannot take a full course at the University, and who wish to qualify themselves for the work of teaching in the common schools. It is supplemented by practical lectures, illustrative work in primary classes, and a thorough investigation and discussion of all the methods involved in the ungraded schools.

**Require-  
ments for  
Admission.** 1. *Arithmetic.*—Students are examined in the whole of the Grammar School Arithmetic, and an accurate knowledge of all this is rigidly required.

Teachers preparing pupils for admission should require them to learn principles and definitions accurately, and to analyze every example capable of analysis, and should give them thorough drill in mental arithmetic.

2. *English Grammar.*—Maxwell's Elementary Grammar.

3. *Geography.*—The whole of some complete manual of Geography.

4. *Reading, Spelling and Writing.*—Proficiency in these subjects is tested by the examination in Grammar.

**NOTE**—Candidates for second year, general course, will be examined in Arithmetic, Algebra to fractional equations, Maxwell's Advanced Grammar, History of the United States, Descriptive Geography, Latin (Collar and Daniell), and two books of Plane Geometry.

Scientific and Engineering students are not examined in Latin, but in Physical Geography and in Bookkeeping instead. Students entering after the session has begun will be examined also in the work passed over by their classes.

## ORDER OF EXAMINATIONS FOR ADMISSION.

*Wednesday, September 20.*—9 a. m., registration of students; 1-4 p. m., Algebra, Geography.

*Thursday, September 21.*—9-12 m., Arithmetic; 1-4 p. m., Latin.

*Friday, September 22.*—9-11 a. m., English Grammar; 11-12 m., English Composition; 1-4 p. m., United States History, General History.

## DETAILED WORK OF COURSES.

## FIRST YEAR.

*Mathematics, 5.*—Milne's Standard Arithmetic, reviewed; Wentworth's Higher Algebra to Fractional Equations; Phillips and Fisher's Plane Geometry, two books.

*English, 4.*—Maxwell's Advanced Grammar; Lamb's Tales from Shakespeare; four original essays per term, corrected and copied; Guerber's Myths of Greece and Rome.

*Parallel Reading.*—Longfellow, Courtship of Miles Standish; Whittier, The Barefoot Boy; Kipling, Jungle Book; Goldsmith, The Deserted Village; Cooke, Surrey of Eagle's Nest; Jewett, Story of the Normans; and selections from Irving and Pike; lives of the above authors.

*Latin, 4.*—Collar and Daniell's First Lessons in Latin.

*History, 3.*—Chamber's United States History and Hempstead's History of Arkansas.

*Geography, 3.*—Redway and Hinman's Natural Advanced Geography.

*Bookkeeping, 1.*—Messervy's Bookkeeping.

*Woodworking, 4.*—Principles of carpentry and joinery; wood turning; pattern making; cabinet work. Sickel's Exercises in Woodworking.

*Frechand Drawing, 2.*—Practice work; outline drawing from models and machine parts; plans, elevations, sections, dimensions, etc.

## SECOND YEAR.

*Mathematics, 5.*—Wentworth's Higher Algebra completed to Logarithms; Phillips and Fisher's Plane Geometry completed.

*English*, 4.—Raub's Rhetoric; five essays per term, corrected and copied; Burke, Conciliation with America; Macaulay's essays on Addison and Byron; Shakespeare, As You Like It; Tennyson, The Princess.

*Parallel Reading*.—Campbell, Gertrude of Wyoming; Scott, Ivanhoe; DeQuincy, Flight of a Tartar Tribe; Stevenson, Treasure Island; Hawthorne, House of Seven Gables; Dryden, Palamon and Arcite; Addison, De Coverly Papers; Goldsmith, Vicar of Wakefield; lives of the above authors.

*Latin*, 4.—Four books of Cæsar, or an equivalent; Bennett's Grammar and Exercise Book.

*History*, 3.—Barnes's General History.

*Physiology*, 2.—Martin's Human Body.

*Chemistry*, 2.—Williams's Introduction to Chemical Science; lectures and written work.

*Pedagogy*, 3.—Hewitt's Pedagogy, Gow's Morals and Manners, Life of Pestalozzi, School Interests and Duties, by King, and Arkansas School Law.

*Civil Government*, 2.—McLeary's Civil Government, Arkansas and The Nation, and Johnson's History of American Politics.

*Founding*, 2.—Molding; melting and pouring brass and iron; management of cupola. Bolland's Iron Founding; lectures and practice.

*Forging*, 2.—Management of fire; drawing; welding; riveting; tempering. Lectures and practice.

*Mechanical Drawing*, 2.—Drawings of machine parts; lettering; line shading, etc.

NOTE.—In the above courses the figure after each subject indicates the number of hours per week.

## SUBJECTS AND COURSES.

## FIRST YEAR.

Subjects.	Hours per week.	Courses Required.			
Arithmetic . . . . .	1½	A	E	S	T
Algebra . . . . .	2	A	E	S	T
Geometry . . . . .	1½	A	E	S	T
Grammar . . . . .	4	A	E	S	T
U. S. History . . . . .	3	A	E	S	T
Latin . . . . .	4	A			T
Geography . . . . .	3			S	T
Bookkeeping . . . . .	1		E	S	T
Drawing . . . . .	1		E		
Shop . . . . .	2		E		

## SECOND YEAR.

Subjects.	Hours per week.	Courses Required.			
Algebra . . . . .	3	A	E	S	T
Geometry . . . . .	2	A	E	S	T
Rhetoric . . . . .	4	A	E	S	T
General History . . . . .	3	A	E	S	T
Physiology . . . . .	2	A	E	S	T
Chemistry . . . . .	2			S	
Latin . . . . .	4	A			T
Civil Government . . . . .	2		E	S	T
Drawing . . . . .	1		E		
Shop . . . . .	2		E		

NOTE.—In this table: A, Arts; E, Engineering; S, Scientific; T, Teachers.

Special courses of study are not allowed in the Preparatory School, but students known to be in poor health or having physical defects which inter-

fer with their studies, are sometimes permitted by the Faculty to defer one or more subjects of study and extend the course over a longer period.

Students who have at any time been enrolled in the Preparatory School, must complete thirty-four hours of work before dropping preparatory studies; and studies in lower classes have precedence over higher ones. A student in the Preparatory School is a member of the highest class with which he has as many as nine recitations per week.

# The Medical School.

LITTLE ROCK, ARKANSAS.

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## BOARD OF TRUSTEES.

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## FACULTY.

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P. O. HOOPER, M. D.,  
Emeritus Professor of Practice of Medicine.

JAS. A. DIBRELL, M. D.,  
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President of Faculty.

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Demonstrator of Anatomy and Adjunct Professor of Anatomy.

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Professor of Gynecology.

E. R. DIBRELL, M. D.,  
Professor of Physiology.

FRANK VINSONHALER, M. D.,  
Professor of Ophthalmology and Otology.

T. N. ROBINSON,  
Professor of Medical Chemistry and Toxicology.

W. H. MILLER, M. D.,  
Professor of Obstetrics.

F. L. FRENCH, M. D.,  
Professor of Materia Medica, Therapeutics, Hygiene and  
Botany.

S. H. KEMPER, M. D.,  
Professor of Surgical Pathology and Bacteriology.

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Adjunct Professor of Clinical Surgery.

ANDERSON WATKINS, M. D.,  
Assistant Demonstrator of Anatomy.

WILLIAM A. SNODGRASS, M. D.,  
Assistant to Chair of Anatomy.

FREDERICK W. DORTCH, M. D.,  
Adjunct Professor of Chemistry.

JAMES H. LENOW, M. D.,  
*Secretary of the Faculty,*  
Little Rock, Arkansas.

TWENTY-FIRST ANNUAL ANNOUNCEMENT  
OF THE  
UNIVERSITY OF ARKANSAS  
MEDICAL SCHOOL.

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*The Regular Winter Course* of lectures will begin on Thursday, October 12, 1899, and continue six months.

Lectures will be delivered daily during the six days of each week.

The matriculation book will be opened from and after September 1st to students desiring to matriculate early and secure choice of seats.

In making this annual announcement the Faculty feel great satisfaction in referring to the continued success and prosperity of the Medical Department. The cordial indorsement of the Arkansas Medical Society and the generous influence of the medical profession throughout the State are highly appreciated and encourage the Faculty to continue the arduous labors they have so long and zealously maintained.

**Four Year's Graded Course.**      *First Year.*—Anatomy, Practical Anatomy, Physiology, Chemistry, Physics, Histology, and Medical Ethics.  
*Second Year.*—Anatomy, Practical Anatomy, Physiology, Chemistry, Materia Medica, Pathology, Obstetrics.

*Third Year.*—*Materia Medica* and *Therapeutics*, *Toxicology*, *Obstetrics* and *Diseases of Children*, *Physical Diagnosis*, *Diseases of the Eye and Ear*, *Practice of Medicine*, *Surgery*.

*Fourth Year.*—Review of all branches, *Practice of Medicine*, *Surgery*, *Dermatology*, *Gynecology*, *Bacteriology*, *Urinology*, *Venereal Diseases*, *Diseases of the Nervous System*, *Medical Jurisprudence*.

**Matriculation.** As required by the rules and regulations of the "Association of American Medical Colleges," students on matriculating are required to present credentials showing that they are matriculates or graduates of recognized colleges of literature, science or arts, of high schools, academies, normal schools, or equivalent schools, or that they have teachers' certificates.

Graduates and matriculates in Medicine, Dentistry or Pharmacy, on presenting credentials showing such, are exempt from the entrance examination.

To avoid delay, students entitled to matriculate *without* examination are requested to bring their certificates with them and present them on arrival at the college.

Students not entitled to exemption, as herein-before provided, are required to pass an entrance examination, with the following requirements: the writing of an English composition of not less than 200 words; the translation of easy Latin prose; a

knowledge of the elements of Arithmetic or Algebra, and of elementary Physics.

**Location.** The City of Little Rock is conveniently situated in the center of the State, and railroads enter from every direction, making it easily accessible.

It has a population of more than 40,000, and has always been classed as one of the most healthful cities west of the Mississippi River. Few places can boast of better public schools, colleges and universities than Little Rock. All the eleemosynary institutions of the State are located here. These are the School for the Blind, Deaf Mute Institute, and the Insane Asylum.

**Medical School Building.** The new structure is an imposing edifice, three stories in height, constructed of brick and admirably arranged for the convenience of both students and instructors.

It has a large lecture hall, a fine amphitheater with chairs, a library, a reading room, a museum, several dissecting rooms, all well lighted and ventilated. In fact, it is designed to be a modern and model medical college building. It is situated on Second and Sherman streets.

**Hospitals.** The Logan H. Roots Memorial Hospital.—By the munificence of the late Col. Logan H. Roots and the benevolence of his widow, the City of Little Rock is to have an elegant public hospital.

The commodious building is now completed.

The Medical Department of the University is fortunate in having this hospital situated on lots adjoining their own building, thus promising greatly increased clinical facilities.

The Little Rock Infirmary, designed solely for the treatment of acute diseases, has a capacity of fifty beds. This hospital is splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses, Sisters of Charity.

The Pulaski County Hospital, erected at a cost of some \$30,000, is a handsome brick structure, well arranged, complete in all its equipments, and has a capacity of 200 beds.

Accidents from railways, marine patients, and the sick and injured from the city, county and State, find in these hospitals shelter, food, raiment, and that Christian attention so cheering and comforting in sickness and distress.

The inmates of these different institutions embrace all classes and conditions of people—white, colored, male, female, adults and children—and with them are found almost every form of malady except quarantinable diseases, which are otherwise provided for.

**"The Isaac Folsom Clinic."**

This clinic is thus designated in honor of the personal life of Dr. Folsom, and the friendship and interest this honorable physician and philanthropist entertained for the Medical Department. He legally executed an instrument of writing endowing this clinic with \$20,000, thus perpetuating the *Isaac Folsom Clinic* as a part of this institution.

Every student of this department is required to attend this clinic, and each candidate for graduation must pass an examination on the clinical instruction therein received, and this fact will be specially mentioned on the face of his diploma.

The daily instruction in this clinic is thoroughly practical, and is attended by a large number of outdoor patients from the city and surrounding country. It embraces a wide range of diseases and injuries.

**Methods of Teaching.** Instruction will be given by didactic and clinical lectures, practical work in the dissecting room, chemical and physiological laboratories, and by daily quizzes upon the subject of preceding lectures.

When the subject will admit of it, each branch will be so illustrated by means of diagrams, charts, models and instruments, as to address the understanding of the student through the medium of sight as well as hearing.

**Expenses of Living, Etc.** The expenses of living in the City of Little Rock will, of course, vary according to the views and habits of students.

Good board, at the present time, including lodging, fuel and lights, may be had at a convenient distance from the College, at from \$4 to \$6 per week, and from \$13 to \$18 per month.

Students on their arrival are requested to visit the University building, corner Second and Sherman streets, where a list of parties desiring to board medical students will be found.

Persons desiring further information are requested to address the Secretary of the Faculty.

#### TERMS.

The fee for a full course of lectures will be :	
General Ticket.....	\$50.00
Matriculation Ticket (paid but once).....	5.00
Demonstrator's Ticket (for each course).....	5.00
Hospital Ticket (each course).....	3.00
Graduation Fee .....	25.00

No variation is made, under any circumstance, from the established fees of the College, they having been placed originally at the very lowest figure commensurate with the interests of both student and College.

For more specific information and catalogue apply to

JAS. H. LENOW, M. D.,

*Secretary of Medical Faculty,*

Little Rock, Ark.

NOTE—Alumni are requested to inform the Secretary of their present post office address, and of any change of location, in order that they may have the annual catalogue forwarded them regularly.

# Law Department, University of Arkansas,

LITTLE ROCK, ARKANSAS.

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JOHN L. BUCHANAN, M. A., LL. D.,  
President of the University.

*Dean:*  
MARK VALENTINE,

*Lecturers:*  
JNO. M. ROSE,            THOS. B. MARTIN,  
JNO. B. JONES,            W. T. TUCKER,  
SAM W. WILLIAMS.        W. S. McCAIN.

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**Location.** The Law Department of the University of Arkansas is located at the City of Little Rock, the capital of the State, and it is believed that the advantages here for the study of the law are as good as in any city of its size in the United States.

**Control and Government.** This department is under the supreme control of the board of trustees of the University and in immediate charge of the Dean, who is responsible to the board for the good conduct of the school, and is expected at all times to defer his private interests to its welfare.

**Method of Instruction.** This will be by thorough study of the Text-books and rigid daily examinations, with comments and explanations, until it is seen that the student thoroughly understands and has digested what he has read.

While it will not, strictly speaking, be a lecture school, there will be one or more lectures on each branch of the course delivered by some one of the eminent lawyers whose names appear above as lecturers.

The full course is two years divided into the Junior and Senior terms.

Terms begin the first Monday in October and end the first Friday in June.

The Junior course is intended to enable the student to thoroughly ground himself in the principles of law and will be the hard year.

The Senior year will be devoted to the study of the practice and to more elaborate study of as many of the more important branches of the law as the time allotted will permit.

Moot courts will be held often enough to enable every member of the Senior class to act as counsel at least once in a case involving that branch of law then being studied, and at least two moot courts will be held during the study of each branch in the Senior course.

The Judicial Department will consist of a Circuit and a Supreme court. The Dean will act as Judge of the Circuit court, and the other officers

besides counsel will consist of a Sheriff and Clerk, the latter of whom will be required to keep a complete record of the proceedings.

Cases must of necessity be tried on agreed statements of fact, and with this exception every step will be in exact conformity to the practice in the Circuit courts of the State.

The Supreme court will consist of a Chief Justice and two Associate Justices selected from the class. The other officers besides counsel will consist of a Clerk, a Sheriff and a Reporter. The Reporter will be required to digest all decisions, make abstracts of opinions delivered, and when the case is of such nature as to be of interest to the public or to the legal profession, he will furnish a copy of the opinion to the Little Rock *Gazette* for publication.

**JUNIOR YEAR.**—Laws and Jurisprudence of England and America (*Dillon*).—Blackstone (*Cooley*).—Evidence (*Greenleaf*).—Constitutional Limitations (*Cooley*).—Contracts (*Bishop*).—Torts (*Bishop*).—Equity (*Bisham*).

**SENIOR YEAR.**—Pleading (*Gould*).—Suit in Equity (*Barton*).—Simonton's Federal Courts, Criminal Law (*Clark*).—Corporations (*Clark*).—Domestic Relations (*Schouler*).—Real Property (*Tiedman*).—Bills and Notes (*Norton*).—Sales (*Benjamin*).

In addition to the course of instruction important incidental advantages are offered here. The

student has free access to the State libraries. All the State courts and the Federal, District and Circuit courts are held here and are in session from October to June. By attendance on the State Circuit courts the student learns all of the modes of procedure that cannot be learned in the moot courts, empanelling and charging the Grand Jury; selecting and empanelling the Petit Jury; selecting and swearing the Jurors for a particular case; examination of witnesses; exceptions to evidence and to the rulings of the court in the progress of a trial; preparation and arguments of instructions, and, in short, by steady attendance on the various courts, the student gets that knowledge of the practice which can be learned only in the courthouse, and for lack of which the young lawyer is so hindered and embarrassed when he begins practice.

**Tuition**—Fifty dollars a term, ten  
**Expenses.**      dollars in advance upon matriculation  
                      and five dollars per month for the  
rest of the term, or forty dollars in advance in full  
for the term.

The cost of living in Little Rock is about the same as elsewhere in the State. Board and lodging in private families can be had at from three to five dollars per week.

For further information, address

MARK VALENTINE, *Dean,*

Little Rock, Arkansas.

# Branch Normal College.

PINE BLUFF, ARKANSAS.

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## FACULTY.

### NORMAL DEPARTMENT.

J. C. CORBIN, A. M.,  
Principal.

J. C. SMITH, A. B.,  
First Assistant.

T. G. CHILDRESS, L. I.,  
Second Assistant.

ANNA C. FREEMAN, L. I.,  
Third Assistant.

LOUISA M. CORBIN,  
Fourth Assistant.

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### MECHANICAL DEPARTMENT.

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C. F. HOUGHTON,  
Superintendent.

W. S. HARRIS,  
Assistant Superintendent.

E. K. BRALY,  
Machine and Blacksmith Shops.

LORENZO ELLIS,  
Engineer.

**General Statement.**

The Branch Normal College is a department of the University of Arkansas, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the State—the law referred to having been enacted with special reference to the “convenience of the poorer classes.” For the purpose of carrying out the intent of the law, tuition is made free to all appointees, the only requirements for admission being suitable age and qualification, and appointment from one of the county judges, and the payment of the entrance fee of \$5. Other students pay, in addition to the above, \$1 per month in advance.

**Location,  
Etc.**

The school property consists of a beautiful tract of 20 acres of ground, in the suburbs of Pine Bluff, Jefferson County, Ark., and a few rods from the junction of the Missouri Pacific and the St. Louis and Southwestern railroads. The school building, completed in 1881, and occupied January 30, 1882, is one of the handsomest educational edifices in the State, as well as one of the best, being steam heated, electric lighted and well ventilated. It contains one large assembly room, four recitation rooms, and cloak room for males and females. The building is of brick, with slate roof and trimmings of Alabama

granite, and cost, with improvements and furniture, \$12,000. The furniture and other equipments are of the best modern style.

The dormitory, a handsome brick building of seventeen rooms, and the Mechanical Department building, are upon the same grounds.

The Normal course of study is intended to be a full equivalent to a regular college course up to and including the Sophomore year, the only difference being the substitution of Pedagogy for Greek and the higher mathematical branches. The college course adds to this the usual studies of the last two years. Fifteen classes have graduated from the institution, and the members are now occupying prominent positions in life. The number of students for the year 1897-'98 was nearly 200.

**The Library.** The library consists of over 3,500 volumes, embracing many valuable reference books, such as Appleton's Cyclopædia, Lippincott's Gazetteer, Century Dictionary, etc. It also has a fine collection of the works of standard authors—Shakespeare, Milton, Irving, Cooper, Dickens, Longfellow, Carlyle, Tennyson. The library of the Principal, embracing many valuable text and reference books, including the Encyclopædia Britannica, is also accessible to students. A small collection of minerals, each of which is a typical specimen, and none of which are duplicates, has been procured. During the past year a valuable supply of apparatus has been added

to the educational resources of the institution, consisting of an air pump, electrical machine, standard barometer, batteries, French microscope, X-Ray apparatus, spectroscope, sets of weights and measures, common and metric, etc. The outfit of the Mechanical Department is not surpassed, if equalled in quality, by any in the State.

The Reading Room has been fitted up in elegant style and supplied with quite a number of valuable newspapers and periodicals, many of which are furnished by their publishers. Among those on file are the *Freeman*, Indianapolis; *Western Appeal*, Minneapolis; *Gazette*, Huntsville; *The Gazette*, Little Rock; *Globe-Democrat* and *Republic*, Saint Louis; *The Tyler*, Detroit, Mich.; *Popular Educator*, Boston; *Lippincott's Educational Quarterly*, *American Student*, New York; *Weekly Echo*, Pine Bluff; *National Baptist*, Philadelphia; *Southern Review*, Helena; *American Machinist*, *Scientific American*, *Popular Educator*, *Nation*, the scientific publications of the State of Arkansas and of the United States, etc.

<b>Grounds,</b>	Campus, twenty acres; college build-
<b>Buildings</b>	ing (brick), six rooms; brick dormitory
<b>and</b>	for girls, twenty rooms; shop building
<b>Equipment.</b>	(brick), six rooms; iron-clad storage
	building, one room; laundry, one
	room; machinery, value \$5,000;
	library, 3,500 volumes; physical apparatus, \$1,500;
	sewing machines, typewriters, equipment in art,

needlework department, \$500; range and cooking outfit, \$300; musical instruments, piano, organs, violincello, mandolin, flute, guitar, \$1,000.

The dormitory for female students is **Dormitory** under the supervision of the Principal for Girls and his wife. It is a handsome brick and Boarding structure, sufficient for the accommodation of thirty or forty students. **House.**

Board bills are payable monthly in advance, and no deduction is made for loss of time less than one week. Girls staying in the dormitory are required to keep their own rooms and the halls clean, and to assist in turn in the dining room and kitchen. They are expected to furnish their own bed linen, and are held responsible for all damage to furniture in their rooms. They are not to visit each other's rooms, except by invitation from the occupant, and two are expected to occupy one room. They are not allowed to change rooms, nor to visit in town except by permission. The charge for board, fuel and light thus far has been \$8 per month, in advance, and if possible, that price will be continued. Girls who wish to board elsewhere, must obtain permission from the Principal.

**Domestic  
Training,  
Plain Needle-  
work and  
Art Needle-  
work.**

The female students of the institution have daily training in housekeeping, plain sewing and art needlework. This department is under the superintendence of Miss Louisa M. Corbin, a graduate of Ann Arbor, Mich. The department is equipped with a sufficient number of Wheeler & Wilson and Singer Sewing Machines and a liberal supply of all necessary accessories.

Already the success of the department has been very decided, and it has had many specimens of fine work on exhibition. These students also receive daily instruction in typewriting from Professor T. G. Childress.

**Mechanical  
Department.**

The operations of this department are under the superintendence of Professor C. F. Houghton, Superintendent of Mechanic Arts at Fayetteville, assisted by Professor W. S. Harris, a graduate of the Miller Manual Labor School, of Virginia, and Professor E. K. Braly, a graduate of the University of Arkansas.

The shop building was completed in February, 1892. It is of brick and covers a plat of ground 70 by 70, comprising a wood shop 35 by 35, a foundry 25 by 25, a blacksmith shop 25 by 25, and a machine shop 35 by 25; a boiler room 20 by 25 and a court 35 by 20 occupying the remaining space.

*Wood Shop.*—Twelve benches, with complete set of tools for each, a double circular sawing

machine, scroll-saw, band-saw, shaper, carving machine, buzz-planer, pattern lathe, six turning lathes, and many necessary small tools make up the equipment in this department.

*Forge Shop.*—Twelve Buffalo forges are in position, the blast being supplied by a blower, and the smoke drawn off by a large exhaust fan. Besides the usual outfit of anvils, hammers, tongs, etc., there is a Buffalo punch shear and bar cutter capable of cutting off 1-inch bar iron,  $\frac{1}{2}$  by 3-inch strap iron, or of punching a  $\frac{3}{8}$ -inch hole in  $\frac{3}{8}$ -inch iron.

*Machine Shop.*—The equipment consists of a 15-inch crank shaper, a 24 by 24 by 6 foot planer, a 20-inch drill press, a 15-inch by 5 foot turret lathe, a 14 by 6-inch engine lathe, a 12 by 5 hand lathe, universal milling machine, cutter and reamer grinder, twist drill grinder, power grindstone, emery grinders, benches, vices, and all small tools necessary in machine shop work.

*Heating and Power Plant.*—This consists of two vertical engines of 12-horsepower each, two 30-horsepower tubular boilers, and a 30-light dynamo. The piping for feed water is so arranged that the water passes from either pump or injector through a feed water heater to the boilers; and the exhaust piping is so arranged that the exhaust steam from the engines can be used either to heat the feed water or to heat the shops.

*Water Supply.*—In the court of the shop building is a 4-inch Cook tubular well, which fur-

nishes 1,000 gallons of water per hour, delivering it to a tank thirty feet above ground, holding 8,000 gallons.

*Sanitary Provisions.*—The shops are thoroughly well lighted, ventilated, heated, and drained. Sewer connection is made to all buildings, and the abundant water supply is used to insure cleanliness in wash room and water closet.

The courses in the department are as follows, viz:

(a) A course in general shop work, extending over three years, followed by a fourth year's work in one of the shops selected by the student. The design is to enable a young man to choose his trade intelligently and to acquire a sound basis for it.

(b) A three years' course in general shop work, followed by a fourth year's work in the management of boilers, engines and heating systems. This course is intended to train young men for the practical work of foremen or engineers.

(c) A course in general shop work, extending over three years, together with class-room work in the theory and practice of teaching, followed by a fourth year's work in handling classes in the shops and in laying out series of practical exercises.

For fuller information respecting this and other departments, reference is made to the catalogue of Branch Normal College.

**General Exercises.** In addition to the regular class exercises prescribed in the course of study, there are regular lessons in vocal music, which are open to all the students. The general exercises also include a review of a Sabbath school lesson, review of the events of the week, calisthenics, music, and drawing. Music upon instruments—the organ, piano, flute, guitar, etc.,—is extra, but very reasonable in price. There are two literary societies, the Junior and Senior, which hold weekly meetings and afford excellent opportunities for practice in oratory, debate, and composition. It is required that every student shall become a member and attend the meetings of one of the societies.

The length of the vacation allows the advanced students an opportunity to engage in teaching, and a large proportion of their number have done so during the last five years. In nearly all cases they have given satisfaction and conduct their schools with a fair degree of success. The Normal students have also assisted in the work of the institution itself as a part of their training.

It will be a great advantage to the institution if the various county judges will take a special interest in seeing that their counties are represented. The forms for appointments and apportionment of beneficiaries are the same as stated in this catalogue. The proper blanks for making the appointments will be furnished, together with all necessary information, on application to the Principal.

J. C. CORBIN, A. M.,

Pine Bluff, Arkansas,

# Register of Students.

*Abbreviations.*—M. A., Master of Arts; M. S., Master of Science; B. A., Bachelor of Arts; B. S., Bachelor of Science; M. E., Mechanical Engineering; E. E., Electrical Engineering; C. E., Civil Engineering; Agr., Agriculture; Hort., Horticulture.

## GRADUATES.

Name.	Course.	Post Office.	County.
Ross, W. A.	M. A.	Boonsboro	Washington

## SENIORS.

Bevers, A. W.	B. A.	Springdale	Washington
Blair, J. H.	C. E.	Decatur	Benton
Fillmore, C. R.	B. S.	Pine Bluff	Jefferson
Huie, R. W., Jr.	B. A.	Arkadelphia	Clark
Kirby, F. B.	B. A.	Harrison	Boone
Medearis, R. S.	B. A.	Summers	Washington
Patterson, Daisy B.	B. A.	Fayetteville	Washington
Sanders, C. F.	B. A.	Hot Springs	Garland
Stewart, I. F.	B. A.	Springdale	Washington
Weems, C. N.	B. A.	Dardanelle	Yell
Wiley, Winona May	B. A.	Fayetteville	Washington
Wilmot, J. C.	E. E.	Rogers	Benton
Wood, Guy B.	B. A.	Hot Springs	Garland

NOTE.—The names of students in the Medical and Law Departments at Little Rock and of the Branch Normal College at Pine Bluff are not included in this Register, but are published in the special catalogues of these Departments.

## JUNIORS.

Abenathy, G. C.	B. A.	Warren	Bradley
Barry, Katherine B.	B. A.	Fayetteville	Washington
Bates, Madge	B. A.	Fayetteville	Washington
Boatwright, W. V.	B. A.	Van Buren	Crawford
✓Brown, E. T.	C. E.	Sweet Home	Pulaski
Burgess, Irene G.	B. A.	St. Paul	Madison
✓Collier, J. T.	B. A.	Washburn	Sebastian

## REGISTER OF STUDENTS.—Continued.

Name.	Course.	Post Office.	County.
Connelly, J. S.....	B. A.....	Poplar Grove	Phillips
Dickinson, Ruth A.....	B. A.....	Little Rock	Pulaski
Dickinson, T. T.....	B. A.....	Summerville	Calhoun
Easterly, Maud.....	Normal ..	Fayetteville ..	Washington
Eld. G. W.....	M. E.....	Bentonville ..	Benton
Gates, H. W.....	B. S.....	Star City .....	Oklahoma
✓ Gray, W. D.....	B. A.....	Little Rock ..	Pulaski
Hawthorne, D. K.....	B. A .....	Jonesboro .....	Craighead
Hornor, J. L.....	B. A.....	Helena .....	Phillips
Horsfall, F.....	Agr .....	Hazen .....	Prairie
May, Mamie.....	B. A.....	Fayetteville ..	Washington
McDaniel, A. J.....	C. E.....	McDaniel .....	St. Francis
Means, E. D.....	B. A.....	Charleston .....	Franklin
Merritt, Meah.....	Normal ..	Buckner .....	Columbia
Moore, B. L.....	B. A.....	Van Buren .....	Crawford
Orto, C. H.....	B. A.....	Pine Bluff .....	Jefferson
✓ Owens, L. F....	E.E.....	Rogers .....	Benton
Patterson, H. A.....	B. A.....	Fayetteville ..	Washington
Philbeck, R. E.....	B. A.....	Fayetteville ..	Washington
Purdy, Lizzie N.....	B. S.....	Fayetteville ..	Washington
Rattenbury, W. H.....	B. A.....	Fayetteville ..	Washington
Rosser, V. Florence.....	B. A.....	Fayetteville ..	Washington
Saxon, R. L.....	B. S.....	Smackover .....	Union
Sloan, C. C.....	B. S.....	Moline .....	Illinois
Snapp, J. H.....	C. E.....	Snapp .....	Woodruff
Taylor, D. W.....	B. A.....	Pine Bluff .....	Jefferson
Towler, G. F.....	B. A.....	Fordyce .....	Dallas
Treadway, W. A.....	E. E.....	Little Rock ..	Pulaski
Thomason, Demmie E..	B. A.....	Fayetteville ..	Washington
Thomason, Annie C ..	Normal ..	Fayetteville ..	Washington
Webster, Olive S.....	B. A.....	Marvell ....	Phillips
Young, Daisy.....	B. S.....	Springdale ..	Washington

## SOPHOMORES.

Askew, Nancy E.....	B. A.....	Magnolia .....	Columbia
Babb, W E.....	B. A.....	Fayetteville ..	Washington
Berry, E. R.....	M. E.....	Bentonville ..	Benton
✓ Bostick, J. A.....	Hort. ....	Washington ..	Hempstead

REGISTER OF STUDENTS.—*Continued.*

Name.	Course.	Post Office.	County.
Brown, H. S.....	M. E.....	Tyler.....	<i>Texas</i>
Burton, J. B.....	Normal ..	Hope ....	Hempstead
Beavers, Agnes.....	B. A.....	Charleston ..	Franklin
Cochran, V. H.....	C. E.....	Gravett. ....	Benton
Davis, B. F.....	B. A.....	Cherokee ....	Benton
Dean, A....	B. A.....	Frostville....	Lafayette
Erwin, A. T.....	Hort .....	Steedman.....	<i>Missouri</i>
Freeman, W. A.....	B. S.....	Paris. ....	Logan
Gardner, C. E.....	E. E.....	Fort Smith...	Sebastian
Gray, D. L., Jr.....	B. A. ....	Little Rock..	Pulaski
Goddard, Dora Lee.....	Normal ..	Prairie Grove.	Washington
Henderson, G. D. M....	B. A.....	Little Rock...	Pulaski
Hobbs, W. D.....	Normal ..	Bentonville...	Benton
Hudgins, W. H.....	E. E.....	Dallas.....	Polk
Kerrott, J. B. ....	B. S.....	Little Rock...	Pulaski
Knott, E. C.....	B. A....	Bentonville...	Benton
Martin, E. G.....	B. A.....	Little Rock..	Pulaski
Matthews, G. W.....	B. S.....	Jonesboro ....	Craighead
McAndrews, J. A.....	B. A.....	Bentonville...	Benton
McRae, C.....	C. E.....	Mt. Holly....	Union
Morrow, Lulu.....	B. A....	Fayetteville ..	Washington
Mundt, L. J .....	B. A....	Helena .....	Phillips
Pittman, C.....	B. A.....	Prescott.....	Nevada
Ross, H. L .....	B. A....	Boonsboro...	Washington
Ross, Lucy I.....	B. A.....	Boonsboro...	Washington
Sadler, C. L.....	C. E.....	Little Rock..	Pulaski
Sanders, T. E.....	B. A.....	Hot Springs..	Garland
Sellers, C.....	B. A....	Morrilton ...	Conway
Smith, Fannie Marie....	B. A.....	El Dorado ..	Union
Stubblefield, Demie T...	Normal...	Fayetteville ..	Washington
Taylor, W. E.....	B. A.....	Holly Grove..	Monroe
Tilley, Mary.....	B. S.....	Rhea .....	Washington
Treadway, T. C.....	E. E.....	Little Rock...	Pulaski
Trimble, T. C., Jr.....	B. A.....	Lonoke.....	Lonoke
Vaughan, A. J.....	B. A.....	Hindsville ...	Madison
Wasson, A. W.....	B. A.....	Elm Springs..	Washington
Wiley, Pearl.....	B. S.....	Fayetteville ..	Washington

REGISTER OF STUDENTS.—*Continued.*

Name.	Course.	Post Office.	County.
Wilkinson, N.....	B. A.....	Charleston....	Franklin
Wilson, H. H.....	E. E.....	Russellville ...	Pope

## FRESHMEN.

Abernathy, J. A.....	B. A.....	Fordyce ..	Dallas
Alden, R.....	B. A.....	Osage Mills...	Benton
Alden, Minnie.....	B. A.....	Osage Mills...	Benton
Austin, Miriam Edith...	B. A.....	Van Buren ...	Crawford
Barton, R. B.....	B. A.....	Mound City ..	Crittenden
Bates, W. E.....	C. E.....	Fayetteville ..	Washington
Baxter, J. W.....	B. A.....	Hackett .....	Sebastian
Blaylock, J. C.....	B. A ...	Lockesburg.	Sevier
Brown, I. F.....	M. E.....	Sweet Home ..	Pulaski
Buchanan, Mary.....	B. A.....	Boonsboro....	Washington
Buchanan, H. E.....	B. A.....	Boonsboro....	Washington
Buchanan, W. H.....	M. E.....	Boonsboro....	Washington
Castleberry, J. L.....	B. A.....	Oil Trough ..	Indep'dence
Cartwright, W. W.....	B. A ...	Mt. View.....	Stone
Clancy, W .....	C. E....	Fayetteville ..	Washington
Clayton, J. M.....	B. A.....	Eureka Sp'gs.	Carroll
Cook, Birdie Bertha....	B. A.....	Bentonville.	Benton
Covington, B. G .....	C. E....	Howell .....	Woodruff
Crandall, Bonnie May..	B. A.....	Harrison .....	Boone
Curry, C. C.....	E. E.....	Fayetteville ..	Washington
Danaher, W. S.....	C. E....	Little Rock ..	Pulaski
Daniel, D. J.....	B. A.....	Lonoke .....	Lonoke
Davis, Pearl Reed.....	B. A.....	Paris. ....	Texas
Dean, T., Jr*.....	B. A....	Frostville....	Lafayette
Dowdle, J. H.....	Normal ..	Morrilton ...	Conway
Dotson, J. A.....	Normal ..	Huntsville....	Madison
Dunn, J. L.....	E. E ....	Arkadelphia ..	Clark
Ellis, W. Y.....	E. E.....	Fayetteville ..	Washington
Forest, Daisy.....	Normal ..	Huntsville....	Madison
Galloway, Rowena.....	B. A.....	Fayetteville ..	Washington
Gibson, F. I .....	Hort. ....	Dardanelle ...	Yell
Goddard, Kate.....	B. A ...	Prairie Grove	Washington

\* Deceased.

REGISTER OF STUDENTS.—*Continued.*

Name.	Course.	Post Office.	County.
Goddard, Maud.....	B. A.....	Prairie Grove.....	Washington
Govan, J. F.....	B. A.....	Helena.....	Phillips
Hayes, G. G.....	E. E.....	Newport.....	Jackson
Hamilton, H. H .....	M. E.....	Nettleton.....	Craighead
Hawthorne, J. H.....	Hort .....	Jonesboro .....	Craighead
Herring, B. L.....	B. A.....	Jersey.....	Bradley
Hight, W. G.....	E. E.....	Fayetteville ..	Washington
Hogg, H.....	B. A.....	Altheimer .....	Jefferson
Hust, A. S.....	M. E.....	Bentonville .....	Benton
Johnson, A. E.....	B. S.....	Caglesville .....	Pope
Johnston, J. E.....	Normal ..	N. Lewisville ..	Lafayette
Jones, D.....	E. E.....	Fayetteville ..	Washington
Jones, O. E.....	B. A.....	Newport.....	Jackson
Kelley, E. L.....	B. A.....	Goshen.....	Washington
Lake, Horton.....	B. A.....	Fayetteville ..	Washington
Lewis, J. J.....	Normal ..	Maynard.....	Randolph
Martin, C. B.....	B. S.....	Mena .....	Polk
Martin, A. J.....	Agr .....	Batesville.....	Indep'dence
Martin, J. L.....	Agr .....	Batesville.....	Indep'dence
McAlester, E. W.....	E. E.....	McAlester .....	Ind. Ter.
McCall, J. K.....	B. A.....	Mt. Holly .....	Union
McConnell, J. L.....	C. E.....	Huntington ..	Sebastian
McNeill, Jesse.....	B. A.....	Fayetteville ..	Washington
McNeill, L .....	E. E.....	Fayetteville ..	Washington
Melton, Hattie C.....	B. A.....	Fayetteville ..	Washington
Mesler, R. D.....	B. S.....	Fayetteville ..	Washington
Moon, A. R.....	B. A.....	Magazine .....	Logan
Moore, A. R.....	B. A.....	Boonsboro .....	Washington
Munn, M. J.....	B. S.....	Bodcaw .....	Nevada
Munn, C.....	B. A.....	Bodcaw .....	Nevada
Nelson, R. J.....	Normal ..	DeQueen .....	Sevier
Newman, L. L.....	E. E .....	Magazine .....	Logan
Perryman, S. S.....	B. A.....	Fayetteville ..	Washington
Pettigrew, Lillian I.....	B. S.....	Fayetteville ..	Washington
Prall, G. V.....	B. A.....	Jonesboro .....	Craighead
Pyeatt, H. R. ....	B. A.....	Boonsboro .....	Washington
Searcy, F. J*.....	B. A.....	Buckner .....	Columbia

\*Deceased.

REGISTER OF STUDENTS.—*Continued.*

Name.	Course.	Post Office.	County.
Sedwick, T. D.....	B. A.....	Fayetteville ..	Washington
Smith, C.....	B. A.....	Stephens .....	Ouachita
Staggs, P. T.....	B. A.....	Hope .....	Hempstead
Stephens, C. R .....	B. S.....	Bonanza.....	Sebastian
Stephens, R. A.....	B. A.....	Corning.....	Clay
Streepy, J. P.....	B. A. ....	Hot Springs..	Garland
Stubblefield, G.....	C.E.....	Fayetteville ..	Washington
Sutton, Mabel.....	B. A.....	Fayetteville ..	Washington
Swan, J. S.....	B. S.....	Buckner .....	Columbia
Thorn, W. T.....	E. E.....	Shawnee.....	Oklahoma T.
Tilley, Ada C.....	B. S.....	Rhea .....	Washington
Tilley, H. L.....	B. S.....	Summers.....	Washington
Trimble, G. M.....	C.E.....	Lonoke .....	Lonoke
Vaulx, Susie E .....	B. A.....	Fayetteville ..	Washington
Warriner, R. B.....	B. A.....	Corinth .....	Mississippi
Walker, J. W.....	B. A.....	Hindsville....	Madison
West, A. L.....	Normal ..	Fort Smith...	Sebastian
Wilson, W. E.....	B. A.....	Russellville...	Pope
Wood, S .....	B. A.....	Hot Springs..	Garland
Worthley, F. E.....	B. S.....	Helena.....	Phillips

## SPECIAL.

Beakley, W. A.....	B. A.....	Walnut Ridge	Lawrence
Cunningham, Nellie R..	B. A.....	Eureka Sp'gs	Carroll
Davies, Edith.....	B. A.....	Fayetteville ..	Washington
Hamilton, May Fort ..	B. A.....	Fayetteville ..	Washington
Hill, Lola.....	B. A.....	Fayetteville ..	Washington
Moore, Lucy.....	B. A.....	Boonsboro....	Washington
Oliver, Bessie.....	B. A.....	Fayetteville ..	Washington
Scott, Margaret.....	B. A ....	Fort Smith...	Sebastian
Stockard, G. G.....	B. A.....	Nevada.....	Missouri
Triplett, C. H.....	B. A.....	Pine Bluff....	Jefferson
Turner, B. E.....	B. A.....	Cypert .....	Phillips
Vincenheller, G. A....	B. S.....	Fayetteville ..	Washington
Wade, L. A.....	B. A.....	Fayetteville ..	Washington
Wood, Cora.....	B. S.....	Fayetteville ..	Washington
Woolum, J. B.....	E.E.....	Van Buren....	Crawford

REGISTER OF STUDENTS.—*Continued.*

## VOCAL MUSIC.

Name.	Post Office.	County.
Askew, Nancy.....	Magnolia.....	Columbia
Austin, Miriam E.....	Van Buren.....	Crawford
Beakley, W. A.....	Walnut Ridge.....	Lawrence
Chandler, Mrs. E.....		New York
Connor, Kate.....	Fayetteville .....	Washington
Davies, Edith.....	Fayetteville .....	Washington
Davis, Pearl R.....	Paris.....	Texas
Dickinson, Georgia.....	Little Rock.....	Pulaski
Duncan, Anna.....	Fayetteville .....	Washington
Duncan, Mrs. L.....	Fayetteville .....	Washington
Eason, Evelyn.....	Fayetteville .....	Washington
Jordon, Nell.....	Fayetteville .....	Washington
Lake, Louise.....	Fayetteville .....	Washington
Lackey, Daisy.....	Fayetteville .....	Washington
Moore, Betty.....	Boonsboro.....	Washington
Phillips, Mamie.....	Fayetteville .....	Washington
Purdy, Lizzie.....	Fayetteville .....	Washington
Reynolds, Nora.....	Fayetteville .....	Washington
Vincenheller, Jean.....	Fayetteville .....	Washington

## INSTRUMENTAL MUSIC.

Baker, Sadie.....	Alma .....	Crawford
Baum, Florence.....	Fayetteville.....	Washington
Bell, Anna.....	Waldron.....	Scott
Cook, Birdie.....	Bentonville.....	Benton
Davis, Claud.....	Fayetteville.....	Washington
Davis, Maud.....	Fayetteville .....	Washington
Dickinson, Georgia .....	Little Rock.....	Pulaski
Dickinson, T. T.....	Summerville.....	Calhoun
Guilliams, Savannah.....	Farmington.....	Washington
Hamilton, Eileen.....	Fayetteville .....	Washington
Hamilton, Mamie.....	Fayetteville .....	Washington
Hill, Ethel.....	Fayetteville .....	Washington
Hill, Lola.....	Fayetteville .....	Washington
Holcomb, Cener.....	Fayetteville .....	Washington
Kell, Bessie.....	Fayetteville .....	Washington

REGISTER OF STUDENTS.—*Continued.*

Name.	Post Office.	County.
Klyce, Ed.....	Rogers .....	Benton
Lake, Horton.....	Fayetteville .....	Washington
Lake, Louise.....	Fayetteville .....	Washington
Leverett, Rose.....	Fayetteville .....	Washington
Mitchell, Sibyl.....	Fayetteville .....	Washington
Moore, Elsie.....	Cincinnati .....	Washington
Moore, Betty.....	Boonsboro .....	Washington
Morrow, Chas.....	Fayetteville .....	Washington
Rees, Margaret.....	Fayetteville .....	Washington
Scott, Maggie.....	Fort Smith .....	Sebastian
Vaughan, Daisy.....	Fayetteville .....	Washington
Vaughan, Mollie.....	Fayetteville .....	Washington
Wood, Cora.....	Fayetteville .....	Washington
Yates, Hazel.....	Fayetteville .....	Washington

## ART.

Baker, Rivers.....	Alma.....	Crawford
Beakley, W. A.....	Walnut Ridge.....	Lawrence
Beard, A. H.....	Palestine .....	St. Francis
Bruffey, Mrs. A. A.....	Springdale.....	Washington
Cazort, Vivian.....	Lamar.....	Johnson
Cleveland, Rhea.....	Fayetteville .....	Washington
Davis, Mary.....	Fayetteville .....	Washington
Dickinson, Ruth.....	Little Rock .....	Pulaski
Dickinson, Georgia.....	Little Rock.....	Pulaski
Dibrell, James .....	Little Rock.....	Pulaski
Duncan, Eleanor.....	Fayetteville .....	Washington
Easterly, Maud.....	Fayetteville .....	Washington
Elliot, F. E.....	Hot Springs.....	Garland
English, Laura.....	Dutch Mills .....	Washington
Forest, Daisy.....	Huntsville.....	Madison
Gray, W. D.....	Little Rock.....	Pulaski
Goddard, Dora L.....	Prairie Grove.....	Washington
Hamilton, H. H.....	Nettleton.....	Craighead
Hill, Lola.....	Fayetteville .....	Washington
Horsfall, Frank.....	Hazen.....	Prairie
Kantz, Willie.....	Fayetteville .....	Washington

REGISTER OF STUDENTS.—*Concluded.*

Name.	Post Office.	County.
Matthews, Lulu.....	Hot Springs.....	Garland
Mesler, R. D.....	Fayetteville .....	Washington
Moore, Mary Lucie.....	Boonsboro .....	Washington
Morrow, Lulu.....	Fayetteville .....	Washington
Neeley, Bessie.....	Dardanelle .....	Yell
Oliver, Bessie.....	Fayetteville .....	Washington
Patterson, Daisy.....	Fayetteville .....	Washington
Streepy, Paul.....	Hot Springs.....	Garland
Sutton, Mabel.....	Fayetteville .....	Washington
Wiley, Pearl.....	Fayetteville .....	Washington
Wilson, Myrtle.....	Clarksville.....	Johnson

Twenty-nine counted twice.

## SUMMARY FOR SESSION 1898-'99.

Graduate.....	1
Seniors.....	13
Juniors .....	39
Sophomores.....	43
Freshmen.....	90
Special .....	15
Vocal Music .....	19
Instrumental Music.....	29
Art.....	32
	281
Names Counted Twice.....	56
Total.....	225

## BY COURSES :

Master of Arts.....	1
Bachelor of Arts.....	104
Bachelor of Science .....	20
Bachelor of Mechanical Engineering.....	7
Bachelor of Civil Engineering.....	14
Bachelor of Electrical Engineering.....	20
Normal .....	14
Bachelor of Scientific Agriculture.....	7
Special Arts .....	12
Special Science.....	2
Special Music and Painting.....	24
Total.....	225

# Preparatory School.

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## SECOND YEAR CLASS.

Name.	Course.	Post Office.	County.
Abercrombie, J. S.....	A.....	Bryant .....	Saline
Adams, R. M .....	A .....	Ozark .....	Franklin
Austin, W. S.....	E .....	Gravett.....	Benton
Ball, C. C.....	A .....	Ravenden.....	Lawrence
Banks, M. C.....	A .....	Wrightsville....	Pulaski
Bell, Margie.....	A .....	Waldron.....	Scott
Bibb, Dora.....	A .....	Fayetteville.....	Washington
Blanchard, Fay H.....	A .....	Fayetteville.....	Washiagton
Bowles, G. G.....	A .....	Tyro .....	Lincoln
Bradshaw, C. O.....	A .....	Toltec .....	Lonoke
Brewster, H.....	A .....	Boonsboro ....	Washington
Brooks, Effie.....	A .....	Fayetteville.....	Washington
Brooks, Fred M.....	A .....	Horatio .....	Sevier
Brown, Emma.....	A .....	Mena.....	Polk
Burton, P. D.....	A .....	Hope .....	Hempstead
Buzbee, A. K.....	A .....	Wallaceburg....	Hempstead
Byrnes, Emma.....	A .....	Fayetteville.....	Washington
Campbell, A. J.....	A .....	Fayetteville.....	Washington
Cazort, Vivian.....	A .....	Lamar .....	Johnson
Cazort, S. G.....	A .....	Lamar .....	Johnson
Clayton, W. D.....	A .....	Hardy .....	Sharp
Cleveland, Rhea.....	A .....	Fayetteville.....	Washington
Coombs, H. F.....	E .....	Batesville.....	Indep'dence
Cowgill, E. P.....	S .....	Fayetteville.....	Washington
Cox, T. N.....	A .....	Little Rock....	Pulaski
Cunningham, B. L.....	A .....	Dardanelle.....	Yell
Davies, Mary Lou.....	A .....	Fayetteville.....	Washington
Davis, Claude.....	S .....	Fayetteville.....	Washington
Davis, Hill.....	S .....	Lowell .....	Benton
Dews, Colin.....	S .....	Adam .....	Ouachita
Dickinson, Georgia M....	A .....	Little Rock....	Pulaski
Donham, W. R.....	A .....	Corwin.....	Saline

PREPARATORY SCHOOL.—*Continued.*

Name.	Course.	Post Office.	County.
Droke, Leila.....	A .....	Fayetteville.....	Washington
Dunn, W. F.....	A .....	Arkadelphia.....	Clark
Dykes, J. A.....	T .....	Kingston .....	Cleveland
Elliot, F. E.....	E .....	Hot Springs....	Garland
Ellis, J. R.....	E .....	Pine Bluff.....	Jefferson
English, Laura.....	A .....	Dutch Mills....	Washington
English, Margaret.....	A .....	Dutch Mills....	Washington
English, Artelee.....	A .....	\$Dutch Mills....	Washington
Evins, Mamie.....	A .....	Fayetteville.....	Washington
Farley, J. W.....	T .....	Trinchent .....	Benton
Frazier, Ada.....	T .....	Mansfield.....	Sebastian
Freeman, Robert.....	A ...	Mt. Holly.....	Union
Green, C. B.....	E .....	Blanchard Sp'gs	Union
Hanesworth, May.....	T .....	Fayetteville.....	Washington
Hannah, C. W.....	T .....	DeQueen.....	Sevier
Harvey, W. R.....	A .....	Marshall.....	Searcy
Henderson, J. R.....	E .....	Hot Springs....	Garland
Hill, V. D.....	A .....	Clarksville.....	Johnson
Hill, H. B .....	A .....	Fayetteville.....	Washington
Hill, Ethel.....	A .....	Fayetteville.....	Washington
Holland, W. J.....	T .....	Barber. ....	Scott
Horn, H. M.....	S .....	Marshall.....	Searcy
Jackson, Wilburn.....	E .....	Boonsboro ....	Washington
Jagerfeld, Carl von.....	A .....	Washington ....	Hempstead
Jones, Effie.....	A .....	Fayetteville.....	Washington
Jordan, H. P.....	E .....	Little Rock....	Pulaski
Jordan, Grace.....	A .....	Fayetteville. ...	Washington
Jordan, Nellie.....	A .....	Fayetteville.....	Washington
Kantz, Willie.....	A .....	Fayetteville.....	Washington
Kennerly, R. C.....	A .....	Sulphur Rock...	Indep'dence
Key, K. C.....	A .....	Elm Springs....	Washington
Kidder, E. D.....	A .....	Little Rock....	Pulaski
Kimbrough, W. W.....	A .....	Dutch Mills....	Washington
Kindrick, E. L.....	S .....	Ozark .....	Franklin
Kitchens, W. L.....	A .....	Waldo .....	Columbia
Klyce, D. E.....	E .....	Rogers .....	Benton
Knesal, Ada.....	A .....	Fayetteville.....	Washington

PREPARATORY SCHOOL.—*Continued.*

Name.	Course.	Post Office.	County.
Lake, Louise.....	A .....	Fayetteville.....	Washington
Lang, Minnie.....	A .....	Fayetteville. ....	Washington
Lester, Roy.....	A .....	N. Lewisville .....	Lafayette
Leverett, E. V. ....	E .....	Fayetteville.....	Washington
Lewis, J. L. ....	A .....	Mt. Holly .....	Union
Littlejohn, H. N. ....	A .....	Evansville .....	Washington
Maguire, Eva.....	A .....	Fayetteville.....	Washington
Marshall, H. E. ....	A .....	Mansfield.....	Sebastian
Martin, J. T. ....	E .....	Batesville.....	Indep'dence
Mathes, E. P. ....	A .....	Ozark .....	Franklin
McCartney, Stella.....	A .....	Fayetteville.....	Washington
McClendon, L. E. ....	A .....	Grove Ridge ....	Bradley
McGehee, Abner.....	A .....	McGehee .....	Desha
McDaniel, V. ....	A .....	Fayetteville.....	Washington
Mitchell, S. A. ....	A .....	Fayetteville.....	Washington
Moore, Ethel.....	T .....	Boonsboro .....	Washington
Mooring, D. C. ....	S .....	Cotton Plant...	Woodruff
Morgan, Edna.....	A .....	Fayetteville.....	Washington
Morgan, W. S. ....	A .....	Wagoner .....	<i>Ind. Ter.</i>
Murphy, P. E. ....	A .....	Elliott .....	Ouachita
Neeley, J. C. ....	A .....	Dardanelle .....	Yell
Patterson, May.....	A .....	Dardanelle .....	Yell
Pelt, Louis.....	A .....	Falcon.....	Nevada
Phillips, C. O. ....	A .....	Fayetteville.....	Washington
Pitts, Rose.....	S .....	Dover .....	Pope
Pond, Kate.....	S .....	Fayetteville.....	Washington
Pond, Geo. ....	A .....	Fayetteville.....	Washington
Pratt, C. L. ....	E .....	Springdale.....	Washington
Pryor, W. A. ....	T .....	Mena .....	Polk
Potts, T. O. ....	E .....	Potts .....	Logan
Pyeatt, J. H. ....	A .....	Boonsboro .....	Washington
Quarles, T. R. ....	E .....	Fayetteville.....	Washington
Quinn, W. H. ....	A .....	Fayetteville. ....	Washington
Rees, Margaret.....	A .....	Fayetteville.....	Washington
Rife, W. B. ....	T .....	Osage Mills.....	Benton
Rosser, Annie.....	A .....	Fayetteville.....	Washington
Shofner, F. E. ....	A .....	Shawnee .....	<i>Oklahoma</i>

PREPARATORY SCHOOL.—*Continued.*

Name.	Course.	Post Office.	County.
Smith, J. N.....	A .....	Little Rock.....	Pulaski
Stotts, P. M.....	A .....	Hindsville.....	Madison
Stubblefield, Frank.....	E .....	Fayetteville .....	Washington
Thomas, Mabel.....	A .....	Fayetteville .....	Washington
Thurman, J. W.....	S .....	Cincinnati.....	Washington
Vandeenter, E. A.....	A .....	Fayetteville .....	Washington
Vaulx, Eleanor.....	A .....	Fayetteville .....	Washington
Vincent, C. P.....	A .....	Eureka Springs.	Carroll
Waddell, J. B.....	A .....	Paris.....	Logan
Walker, O. P.....	T .....	Texarkana.....	Miller
Watkins, G. A.....	E .....	Fayetteville .....	Washington
Webb, Horace.....	T .....	Exeter.....	Missouri
Webster, Fay.....	E .....	Marvel .....	Phillips
White, Catherine M.....	A .....	Fayetteville .....	Washington
Whithorne, J. D*.....	A .....	Carmel.....	Chicot
Whitehead, A. D.....	T .....	Glasgow.....	Lafayette
Wilson, J. R.....	A .....	Morgan.....	Bradley
Wilson, Myrtle.....	A .....	Clarksville.....	Johnson
Winham, John.....	T .....	Texarkana.....	Miller
Woods, G. G.....	A .....	Hackett .....	Sebastian

## FIRST YEAR CLASS.

Abercrombie, Bertha.....	A .....	Fayetteville.....	Washington
Adams, C. E.....	A .....	Lowell .....	Benton
Arnold, D. S.....	A .....	Newark.....	Indep'dence
Baker, Rivers.....	A .....	Alma.....	Crawford
Barton, Nora L.....	A .....	Cove .....	Polk
Bates, Beulah F.....	A .....	Fayetteville.....	Washington
Baum, Harry .....	A .....	Fayetteville.....	Washington
Beard, A. H .....	T .....	Palestine .....	St. Francis
Beavers, J. W.....	A .....	Grand Lake ....	Chicot
Beeler, L. L.....	A .....	Little Rock.....	Pulaski
Bell, Chas.....	A .....	Washburn .....	Sebastian
Brownfield, May.....	A ..	Phillips .....	Lee
Brown, O. R.....	A .....	Evening Shade	Sharp
Butts, Marshall.....	E .....	Cincinnati.....	Washington

\* Deceased.

PREPARATORY SCHOOL.—*Continued.*

Name.	Course.	Post Office.	County.
Callahan, E. S.	A	Warren.....	Bradley
Cathey, Florence	A	Fayetteville.....	Washington
Catlett, Hervey	A	Dardanelle .....	Yell
Cazort, C. A.	A	Lamar.....	Johnson
Chapman, J.	A	Lake Village .....	Chicot
Conway, C. M.	A	Washington.....	Hempstead
Coulter, D. B.	S	White Cliff ....	Sevier
Courtney, J. G.	E	Winchester .....	Drew
Cunningham, C. R.	A	Dardanelle.....	Yell
Curry, R. E.	E	Fayetteville.....	Washington
Davis, Barbara	A	Fayetteville.....	Washington
Davis, Edward A.	A	Fayetteville. ....	Washington
Davis, Lucy E.	A	Fayetteville.....	Washington
Dowell, B. G.	A	Fayetteville.....	Washington
Dowdle, J. H.	A	Morrilton.....	Conway
Droke, Josie	A	Fayetteville.....	Washington
Dumas, C. R.	A	Lisbon.....	Union
Edmiston, Maud E.	A	Boonsboro.....	Washington
Elliott, J. P.	E	Wewoka .....	<i>Ind. Ter.</i>
Ernest, H. B.	A	Fort Smith.....	Sebastian
Falkner, I. H.	A	Cherry Valley .....	Cross
Fine, G. W.	A	Rudy .....	Crawford
Garland, M. H.	A	Augusta .....	Woodruff
Garretson, W. B.	A	Fort Smith.....	Sebastian
Gocio, Joseph	A	Willamette.....	Jefferson
Graves, A. B.	A	Lockesburg.....	Sevier
Gray, C. W.	A	Little Rock.....	Pulaski
Hail, C. A.	A	Williford .....	Sharp
Hall, S. M.	E	Holly Grove .....	Monroe
Hall, W. A.	A	Bentonville .....	Benton
Hamilton, Eileen	A	Fayetteville.....	Washington
Hamilton, Herbert	A	Shawnee .....	<i>Oklahoma</i>
Hamilton, Fred H.	E	Nettleton .....	Craighead
Hamm, Alice	T	Fayetteville.....	Washington
Hanson, H. J.	A	Buckner.....	Columbia
Harding, Arthur	A	Fayetteville.....	Washington
Hare, J. A.	S	Vanndale .....	Cross
Harriman, F. R.	E	Carmel.....	Chicot

PREPARATORY SCHOOL.—*Continued.*

Name.	Course.	Post Office.	County.
Harrison, Ralph.....	A .....	Fayetteville.....	Washington
Hawkins, R. E.....	A .....	Brinkley .....	Monroe
Henry, Walter.....	A .....	Boonsboro.....	Washington
Herron, M. R.....	A .....	Bentonville.....	Benton
Heard, J. L.....	A .....	Lono .....	Hot Spring
Hildreth, H. B.....	S .....	Washington .....	Hempstead
Hoag, W. F.....	E .....	Judsonia .....	White
Holcomb, G. R.....	A .....	Fayetteville .....	Washington
Horsfall, J. E.....	E .....	Hazen .....	Prairie
House, J. W.....	A .....	Augusta .....	Woodruff
Hudgins, J. W.....	A .....	Hot Springs .....	Garland
Hudgins, Bessie.....	A .....	Hot Springs .....	Garland
Hudgins, Ora M .....	A .....	Harrison .....	Boone
Hudgins, O. W.....	A .....	Harrison .....	Boone
Humphreys, H.....	A .....	Boonsboro.....	Washington
Johnson, Xula A.....	A .....	Cagle'sville .....	Pope
Johnson, Hugh.....	A .....	Greenwood .....	Sebastian
Kahn, E. H.....	S .....	Monett .....	<i>Missouri</i>
Kelly, J. B.....	A .....	Brinkley .....	Monroe
Kimbrough, Daisy.....	A .....	Dutch Mills .....	Washington
Kimple, Ben.....	A .....	Dermott .....	Chicot
King, David.....	S .....	Stattler .....	Crawford
King, Luther.....	S .....	Rector .....	Clay
Kroeger, W. C.....	E .....	Arkansas City .....	Desha
Klyce, H. K.....	E .....	Rogers .....	Benton
Leverett, Nina D.....	A .....	Fayetteville .....	Washington
Lewis, J. J.....	A .....	Maynard .....	Randolph
Lindley, L. T.....	A .....	La Cross .....	Izard
Martin, N. B.....	A .....	Vanndale .....	Cross
Martin, Robert.....	A .....	Little Rock .....	Pulaski
Maryman, T. W.....	A .....	Walnut Hill .....	Lafayette
Mathews, Lulu.....	A .....	Hot Springs .....	Garland
Mauney, W. J.....	A .....	Murfreesboro .....	White
McDonald, Dee.....	S .....	Lisbon .....	Union
McLaughlin, H.....	A .....	Little Rock .....	Pulaski
McKean, J. P.....	T .....	DeQueen .....	Sevier
McRae, C. L.....	E .....	Hope .....	Hempstead
McVay, Mattie.....	A .....	Paris .....	Logan

PREPARATORY SCHOOL.—*Continued.*

Name.	Course.	Post Office.	County.
McVay, Cora.....	A .....	Paris .....	Logan
Miller, H. B.....	A .....	Clarksville ....	Pike
Mitchell, F. P.....	A .....	Brinkley.....	Monroe
Mitchell, R. C.....	E .....	Gillett.....	Arkansas
Mitchell, B., Jr.....	E .....	Gillett.....	Arkansas
Mullins, G. W.....	S .....	Fayetteville....	Washington
Murphy, Emma.....	A .....	Fayetteville....	Washington
Neeley, Bessie .....	A .....	Dardanelle ....	Yell
Neeley, R. C.....	A .....	Cabot .....	Lonoke
Niman, Verbena.....	A .....	Farmington ...	Washington
Niman, Vienna.....	T .....	Farmington ...	Washington
Norman, C. S.....	A .....	Hamburg....	Ashley
Patterson, J. B.....	S .....	Chidester.....	Ouachita
Patterson, T. J.....	S .....	Chidester.....	Ouachita
Paulk, J. A.....	T .....	Texarkana ....	Miller
Phillips, Grace.....	A .....	Fayetteville ...	Washington
Potts, Audley.....	E .....	Paris .....	Logan
Pryor, Rolla.....	E .....	Mena.....	Polk
Ragland, H.....	E .....	Fayetteville. ...	Washington
Ragsdale, W. E.....	E .....	Gravett.....	Benton
Reed, J. H.....	A .....	Greenwood....	Sebastian
Robinson, B. G.....	A .....	Lake Village....	Chicot
Rollow, T. J.....	A .....	Quitman. ....	Cleburne
Sassaman, R. S.....	A .....	Fayetteville....	Washington
Scott, E. W.....	A .....	Carmel ....	Chicot
Shepherd, W. L.....	A .....	Bryant.....	Saline
Skinner, H. L.....	A .....	Lockesburg....	Sevier
Smith, J. L.....	T .....	Corwin.....	Saline
Smith, C. F.....	E .....	Tuskahoma....	<i>Ind. Ter.</i>
Stacy, M.....	S .....	Vanndale .....	Cross
Thompson, Andrew.....	A .....	Boonsboro.....	Washington
Thurston, John.....	A .....	Rector.....	Clay
Vaulx, Gordon.....	A .....	Fayetteville ...	Washington
Wheeler, A. E.....	A .....	Warren .....	Bradley
Whitefield, A. J.....	A .....	Chapel Hill....	Sevier
Wood, J. F.....	S .....	Hominy Post ...	<i>Oklahoma</i>
Wright, W. H.....	S .....	Buena Vista....	Ouachita
Wright, W. L.....	E .....	Hot Springs....	Garland
Yates, Hazel.....	S .....	Fayetteville ...	Washington

PREPARATORY SCHOOL.—*Concluded.*

## SUMMARY FOR SESSION OF 1898-'99.

## BY CLASSES.

Second year .....	126
First year .....	129
Total ... .....	255

## BY COURSES.

Arts .....	175
Scientific.....	24
Engineering.....	37
Teachers.....	19
Total.....	255

## GENERAL SUMMARY, 1898-'99.

Preparatory Students.....	255
Collegiate Students.....	225
Total at Fayetteville .....	480
Medical Students (Little Rock) .....	108
Branch Normal Students (Pine Bluff) .....	176
Grand Total. ....	764

# Alumni Association.

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The object of this association is to maintain the interest of the graduates in the institution and bring them into closer relation with the University. To this end all graduates are considered members. The association usually holds a meeting during commencement week.

## LIST OF ALUMNI.

- Don C. B. Aiken, C. E., '89, Eng. Dep., Johnson Company, Johnstown, Pa.  
Edna Allen, B. A., '96, Teacher, Muscogee, I. T.  
L. S. Anderson, B. L. L., '84, clerk in Land Office, Washington, D. C.  
J. D. Arbuckle, B. A., '92, Principal Public Schools, Paris, Ark.  
C. F. Armistead, B. A., '93, Lieutenant in U. S. A.  
L. R. Ash, B. C. E., '93, Professor Mathematics, Coe College, Cedar Rapids, Ia.  
W. E. Ayers, B. C. E., Inspector St. Francis Levee, Osceola, Ark.  
W. H. Askew, B. A., '97, Law student, University of Virginia.  
Geo. H. Askew, B. A., '98, Merchant, Waldo, Ark.  
Ida Barr, B. S., '96, Mrs. R. E. Bagby, St. Joseph, Mo.  
C. P. Barnett, B. E. E., '96, Electrical Engineer, Fulton, Mo.  
C. O. Bates, B. A., '83, Professor of Chemistry, Coe College, Cedar Rapids, Iowa.  
J. H. Bates, B. A., '86, Lawyer, Corsicana, Tex.  
Mary Beattie, B. A., '96, Teacher, Deaf Mute School, Little Rock, Ark.  
M. L. Bell, B. A., '98, Professor of Mathematics and Commandant of Cadets, Spears-Langford Military Academy, Searcy, Ark.

LIST OF ALUMNI.—*Continued.*

- J. C. Bell, B. A., '94, Physician, Miss.  
 Nettie Barnett, B. L., '76, Mrs. C. E. Boles, Fayetteville, Ark.  
 Blanche Bibb, B. A., '93, Mrs. G. A. Humphreys, New York.  
 J. W. Black, B. A., '92, Lawyer, McAlester, I. T.  
 W. J. Blackwell, B. C. E., '92, Engineer, Golden Lake, Ark.  
 Nora Blakely, B. A., '78, Mrs. H. M. Hudgins, Fayetteville, Ark.  
 W. P. Booth, B. A., '82, Farmer, Reyno, Ark.  
 Alice Borden, '77.  
 Laura D. Botefuhr,\* '75, Mrs. G. W. Schulte, Fort Smith, Ark.  
 Preston Bowles, B. C. E., '88, Kansas City, Pittsburg and Gulf Railway, Lake Charles, La.  
 W. E. Boyd, B. A., '96, Law Student, Austin, Tex.  
 Amanda Braly, B. S., '96, Washington, D. C.  
 Etta Braly, B. S., '96, Mrs. Thos. McColloch, Boonsboro, Ark.  
 E. H. Braly, B. A., '94, Land Office, Harrison, Ark.  
 E. K. Braly, B. M. E., '97, Professor of Mechanics, Branch Normal College, Pine Bluff, Ark.  
 O. P. Brewer, B. S., '93, Webber's Falls, I. T.  
 A. M. Bixey, B. A., '96, Lawyer, Texas.  
 W. D. Brown, B. A., '82, Physician, Newtonia, Mo.  
 H. M. Butler, B. A., '79, Teacher, Arkansas.  
 J. L. Campbell, B. A., Journalist, Greenwood, Ark.  
 E. B. Carden,\* B. L., '77.  
 Ella Carnall,\* A. M., '81.  
 A. H. Carrigan, B. A., '82, Lawyer, Washington, Ark.  
 Ann E. Carson, '75, Mrs. John Knight, Jonesboro, Ark.  
 Augusta O. Carson, '75, Mrs. T. W. Cline, Downey, Cal.  
 C. K. Chanslor, B. A., '82, Lawyer, Grant's Pass, Ore.  
 W. R. Cherry, B. A., '82.  
 Jessie Cravens, B. L. L., '83, Mrs. O. Cravens, Neosho, Mo.  
 A. B. Crozier, B. E. E., '97, Electrical Engineer, Kansas City, Mo.  
 Wm. N. Crozier, B. A., '88, Missionary to China.  
 R. N. Cummings, B. A., '98, Medical Student, St. Louis, Mo.  
 Lula Curry, B. S., '92, Mrs. G. L. Teller, Chicago, Ill.  
 Mike Danaher, B. A., '88, Lawyer, Little Rock, Ark.

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\* Deceased.

LIST OF ALUMNI.—*Continued.*

- Hadge Davies, B. A., '93, Associate Professor of English and Modern Languages, University of Arkansas.  
Lila Davies, B. A., '96, Fayetteville, Ark.  
Lizzie P. Davis, '75, Mrs. R. C. Brown, Florence, Arizona.  
W. E. Dixon, B. A., '88, Teacher, Waldo, Ark.  
C. H. Drake, B. C. E., '91, and C. E., '94, Engineer, Helena, Ark.  
N. F. Drake, B. C. E., Professor of Geology and Mining, Imperial University, Tien-tsin, China.  
C. J. Drees, B. E. E., '96, Edison Electric Company, Little Rock, Ark.  
G. W. Droke, A. M., '80, Professor of Mathematics, University of Arkansas.  
W. H. Duncan, B. L. L., '84, Lawyer, Conway, Ark.  
Mallie Dyer, B. A., '94, Professor of English and German, Florida State College, Tallahassee, Fla.  
Clara Earle, B. A., '96, Instructor in English and Modern Languages, University of Arkansas.  
W. L. Edmiston,\* B. L. L., '84.  
Amanda A. Eld, B. A., '98, Teacher, Benton County, Ark.  
C. J. Eld, B. C. E., '96, Assistant City Engineer, St. Joseph, Mo.  
F. W. Ellis, B. A., '81, Lieut. U. S. Army, Fayetteville, Ark.  
W. W. England, B. A., '83.  
L. F. Fishback, B. S., '89, Lawyer, Wichita Falls, Texas.  
J. C. Floyd, B. A., '79, Lawyer, Yellville, Ark.  
W. M. Flynn, B. A., '88, Teacher, Kennedale, Tex.  
J. R. Gannaway, B. A., '90, Lawyer, Member Legislature, Warren, Ark.  
D. A. Gates, B. A., '84, County Judge, Desha County, Arkansas City, Ark.  
J. E. Gibson, B. M. E., '94, Civil Engineer, Philadelphia, Pa.  
W. P. Goodwin, B. L. L., '84, Lawyer, Warren, Ark.  
Belle L. Gorton, B. A., '76, Author, Chicago, Ill.  
C. D. Greaves, B. A., '83, Lawyer, Hot Springs, Ark.  
Alfred W. Gregg,\* B. A., '76.  
Andrew S. Gregg, B. A., '78, Physician, Fayetteville, Ark.  
L. W. Gregg, B. A., '82, Lawyer, Fayetteville, Ark.

\* Deceased.

LIST OF ALUMNI.—*Continued.*

- C. E. Hall, B. C. E., '93, Civil Engineer, Russellville, Ark.  
 H. J. Hall, B. A., '94, State Senator, Waldron, Ark.  
 W. J. Hamilton, B. A., '92, Teacher, Greenwood, Ark.  
 Agnes Harris, B. A., '76, Mrs. Johnson, Kansas City, Mo.  
 Sara E. Harris, B. A., '76, Mrs. C. P. Conrad, Osceola, Mo.  
 Grace Harrison,\* B. S., '89, Mrs. T. L. Brown, Greenwood, Ark.  
 J. H. Harrod, B. A., '79, Lawyer, Little Rock, Ark.  
 J. C. Hart, B. A., '85, Lawyer, Dardanelle, Ark.  
 J. T. Hawkins, '79, Physician, Mount Holly, Ark.  
 J. D. Head, B. A., '94, Lawyer, member of Arkansas Legislature, Columbia, Ark.  
 I. G. Hedrick, B. C. E., '92, Firm of Waddell and Hedrick, Consulting Engineers, Kansas City, Mo.  
 W. Rhodes Hervey, B. S., '90, Lawyer, Santa Anna, Cal.  
 E. W. Hillis, B. L.L., '84, Lawyer, Jonesboro, Ark.  
 J. H. Hobbs,\* B. A., '88  
 Daniel Hon, B. A., '82, Lawyer, Waldron, Ark.  
 Cener Holcomb, B. A., '92, Instructor in University of Arkansas, Fayetteville, Ark.  
 Jobelle Holcomb, B. A., '98, Teacher, Fayetteville, Ark.  
 S. A. Horton, B. A., '91, Lawyer, Fairview, Ark.  
 J. W. Howell, B. L. L., '85, Cotton Buyer, Clarksville, Ark.  
 Willey Howell, B. S., '97, First Lieut. 4th Infantry, U. S. A.  
 J. H. Hudson, B. L. L., '84, Farmer, Dardanelle, Ark.  
 G. A. Humphreys, B. A., '90, Physician, New York City.  
 Edgar Jennings, B. A., '77.  
 Gustave Jones, B. L. L., '82, Lawyer, Newport, Ark.  
 Albert P. Johnson, B. A., '76, Lawyer, Winfield, Kan.  
 T. M. Johnson,\* B. L. L., '80.  
 G. H. Kimball, B. C. E., '92, Auditor of the D. & R. R. R., Dardanelle, Ark.  
 Artelle Alice King, B. L. L., '80, Mrs. J. C. Belt, Brooken, I.T.  
 E. B. Kinsworthy, B. L. L., '85, ex-Attorney General of the State of Arkansas, Lawyer, Little Rock, Ark.  
 T. B. Kitchens, A. M., '80, Merchant, Paragould, Ark.  
 Ella Lake, B. L. L., '84, Mrs. S. W. Barnett, Fayetteville, Ark.

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\* Deceased.

LIST OF ALUMNI.—*Continued.*

- W. H. Langford, B. A., '86, Banker, Member of the Board of Trustees University of Arkansas, Pine Bluff, Ark.
- J. A. M. Lanier, B. A., '82.
- Abbie Leverett, B. A., '94, Teacher, Georgetown, Tex.
- Mary Leverett, B. A., '86, Mrs. J. A. Taff, Washington, D. C.
- Rose C. Leverett, B. A., Fayetteville, Ark.
- D. B. Lipsey, B. S., '96, Teacher, Texas.
- W. Ross McCain, M. A. '98, student in Germany.
- Eva McCart, '75, Mrs. D. M. Main, Cheney, Kan.
- J. B. McDonough, B. A., '82, Read & McDonough, Attorneys, Fort Smith, Ark.; Member of the Board of Trustees University of Arkansas.
- W. R. McFarlane, B. A., '82, Lawyer, Greenwood, Ark.
- Charles F. McKinney, '75, Traveling Salesman, Ozark, Ark.
- John C. McNeeley, B. C. E., '89, Planter, Rackensack, Ark.
- S. E. Marrs, B. A., '79, Editor of the Democrat, Fayetteville, Ark.
- J. C. Marshall, M. A., '79, Lawyer, Little Rock, Ark.
- Mack Martin, B. M. E., '91, Assistant Superintendent of Mechanic Arts, University of Arkansas.
- Pearl Martin, B. S., '93, Teacher at Fayetteville, Ark.
- Collin Massie, B. A., '77, Teacher at Fayetteville, Ark.
- J. E. Martineau, B. A., '96, Law student, Little Rock, Ark.
- J. F. Mayes, B. A., '83, Lumber Dealer, Fayetteville, Ark.
- Dane A. McNeill, M. E., '97, Superintendent of Factory, Salem, Ohio.
- W. M. Mellette, B. L., '77, Mellette & Smith, Attorneys, Vinita, I. T.
- Mai Middleton, B. A., '86, Mrs. R. Chasteen, Fort Smith, Ark.
- H. P. Moberly, B. C. E., '94, R. R. Civil Engineer, Longview, Tex.
- Lucy B. Mock, B. A., '94, Professor in Gessamine College, Nicholasville, Ky.
- E. L. Mock, B. A., '94, Prairie Grove, Ark.
- J. F. Moore, B. S., '93, Assistant Chemist, Agricultural Experiment Station, Fayetteville, Ark.
- J. H. Moore, B. S., '93, Chemist, Solvay Process Company, Syracuse, N. Y.

LIST OF ALUMNI.—*Continued.*

- J. I. Moore, B. A., '81, Lawyer, Phillips County, Helena, Ark.  
J. L. Moore, B. M. E., '97, First Lieutenant Arkansas Volunteers, U. S. A.  
Lucy J. Moore, '75, Mrs. Ross, Cincinnati, Ark.  
D. C. Morrow, B. E. E., '97, Engineer, Eureka Springs, Ark.  
Mattie W. Morrow, B. S., '90, Teacher in Public School, Fayetteville, Ark.  
Sara Mulholland, B. A., '86, Mrs. J. F. Mayes, Fayetteville, Ark.  
A. J. Myar, B. C. E., '96, Engineer with St. Louis Bridge and Iron Co., St. Louis, Mo.  
W. H. Neal, B. L., '76, Lawyer, Van Buren, Ark.  
A. J. Newman, B. A., '91, Lawyer, Little Rock, Ark.  
George Nicholls, B. A., '98, Journalist, Helena, Ark.  
E. P. Notrebe, '85, Physician, Kansas City, Mo.  
T. F. Oats, B. A., '82, Physician, Mexia, Tex.  
Ora Obenshain, B. S., '89, Teacher in Public Schools, Eureka Springs, Ark.  
Ida Pace, B. A., '88, Mrs. A. H. Purdue, Fayetteville, Ark.  
C. C. Patton, B. A., '91, Lawyer, Hillsboro, Ohio.  
L. Alice Patton, A. M., '79, Teacher, Prairie Grove, Ark.  
Mattie J. Patton, B. L. L., '80, Mrs. Dr. Chas. Jenkins, Denver, Ill.  
Thos. A. Pettigrew, A. M., '78, Lawyer, Charleston, Ark.  
Harry Pharr, B. C. E., '93, Chief Engineer St. Francis Levee District, Southern Express Building, Memphis, Tenn.  
J. S. Pharr, B. A., '92, Civil Engineer, Southern Express Building, Memphis, Tenn.  
J. W. Pickel, B. A., '82, Physician for Crystal Plate Glass Company, Crystal City, Mo.  
R. T. Pittman, B. S., '94, Chemist, Sloss Iron and Steel Company, Birmingham, Ala.  
Alice Polson, B. S., '88, Mrs. W. C. Hutchinson, 1409 Pendleton avenue, St. Louis, Mo.  
W. W. Powell, B. A., '88, Lawyer, Batesville, Ark.  
C. G. Price, B. A., '98, Mercantile Business, Newport, Ark.  
W. E. Pruett, B. C. E., '97, Draughtsman Waddell & Hedrick, Kansas City, Mo.

LIST OF ALUMNI.—*Continued.*

- Anna Putman, M. A., '75, Teacher in Public Schools, Fayetteville, Ark.  
J. L. Redus, B. A., '96, Lead Hill, Boone County, Ark.  
G. W. M. Reed, Jr., B. L. L., '84, Lawyer, Los Angeles, Cal.  
Lina Reed, B. A., '81, Instructor University of Arkansas, Fayetteville, Ark.  
Maggie Reed,\* B. A., '78.  
O. S. Rieff, B. A., '81, Lawyer, Deputy State Auditor, Little Rock, Ark.  
P. A. Rogers, B. A., '92, Farmer, Gravett, Ark.  
W. A. Ross, B. A., '98, Acting Professor Military Science and Commandant of Cadets, University of Arkansas.  
Z. C. Ross,\* B. A., '80.  
Lawrence Russell, B. A., '80, Lawyer, Russellville, Ark.  
G. C. Schoff, B. C. E., '88, Civil Engineer, Babcock-Wilcox Boiler Company, Philadelphia, Pa.  
G. C. Shell, B. L. L., '82, Lawyer, Lake Village, Ark.  
A. W. Shreve, B. C. E., '91, County Surveyor, Washington County, Farmington, Ark.  
H. B. Shreve, B. C. E., '91, New Mexico.  
W. D. Simms,\* B. L., '77.  
Alice Simonds, B. S., '96, Mrs. A. V. Smith, Springdale, Ark.  
J. E. Skelton, B. S., '97, Druggist, Corvallis, Ore.  
G. V. Skelton, B. C. E., '91, Professor of Mathematics, Agricultural College, Corvallis, Ore.  
Ida Slagle, B. A., '89, Mrs. Gilbreath, Siloam Springs, Ark.  
A. V. Smith, B. A., '98, Principal of Public School, Springdale, Ark.  
E. L. Spencer, B. A., '98, Principal of Public School, Waldron, Ark.  
Henry Stroup, B. A., '83, Lawyer, Paris, Ark.  
Wm. S. Sutton, A. M., '78, Professor of Pedagogy, University of Texas.  
Albert Taff,\* B. C. E., '90.  
J. L. Taff, B. A., '84, Principal Public School, Austin, Tex.  
Mary Taff, B. A., '89, Mrs. G. V. Skelton, Corvallis, Ore.  
Lou Taliaferro, B. L. L., Stenographer, Kansas City, Mo.

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\* Deceased.

LIST OF ALUMNI.—*Concluded.*

- E. L. Taylor, B. L., '76, Lawyer, Bentonville, Ark.  
 C. V. Teague, B. A., '79, Prosecuting Attorney, Hot Springs, Ark.  
 B. J. Tillar, B. A., '86, Capitalist, Fort Worth, Tex.  
 J. N. Tillman, B. L. L., '80, ex-District Prosecuting Attorney, Lawyer, Fayetteville, Ark.  
 Lee Treadwell, C. E., '88, Engineer, Kansas City, Mo.  
 S. C. Treadwell, B. A., '94, Lawyer, Tishomingo, I. T.  
 A. M. Vance, B. C. E., '93, Pierce City, Mo.  
 James Vandeventer, B. S., '93, Bookkeeper, Fayetteville, Ark.  
 George Vaughan, B. A., '96, Lawyer, Lockesburg, Ark.  
 Julia Vaulx, B. A., '92, Teacher, West Orange, N. J.  
 S. F. Vaulx, B. A., '92, Memphis, Tenn.  
 Katherine D. Vaulx, B. A., '97, Teacher, Benton, Ark.  
 Annie Waggener, B. L., '77, Mrs. Marcus, Cincinnati, Ark.  
 W. J. Waggener, A. M., '76, Professor of Natural Philosophy, University of Colorado, Boulder, Colo.  
 J. V. Walker, B. A., '77, Lawyer, Fayetteville, Ark.  
 C. A. Watson, B. A., '77, Teacher, Fayetteville, Ark.  
 J. J. Watson, B. A., '81, Teacher, California.  
 G. A. Warren, B. L., '88, Physician, Imboden, Ark.  
 J. N. Wheeler, B. A., '90, Capitalist, Warren, Ark.  
 Hattie E. Williams, B. A., '98, Teacher, Fayetteville, Ark.  
 Naomi J. Williams, A. M., '80, Instructor in University of Arkansas.  
 Jennie Williams, B. A., '96, Teacher, Imboden, Ark.  
 R. H. Willis, B. A., '88, Ph. D., '96, Principal Girls' School, Chatham, Va.  
 A. C. Wood, B. M. E., '92, Engineer, Philadelphia, Pa.  
 B. F. Wood, B. E. E., '93, Electrical Engineer, Philadelphia, Pa.  
 C. D. Wood, B. A., '79, Associate Justice Supreme Court of Arkansas.  
 W. H. Woodall, B. A., '85, President of Female College, Lake City, Fla.  
 C. D. Woolverton, B. L. L., '85, Principal of School, Sheridan, Ark.

NOTE.—The President will be pleased to receive information as to the address and occupation of those members of the Alumni for whom these data are wanting. The Alumni are especially requested to give notice of any omission or errors in the foregoing list, or any changes made during the ensuing year.

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\*Deceased.

## INDEX

SUBJECT.	PAGE.
Absences and Withdrawals.....	43
Accredited Schools.....	32
Admission, Conditions of.....	27
Examinations for.....	27, 30
On Certificates.....	31
Requirements for.....	27
To Advance Standing.....	32
To Collegiate Department.....	54, 57
To Preparatory Department.....	116
To Special Studies.....	35
Agricultural Buildings.....	14
Agricultural Experiment Station.....	53
Agricultural Chemistry and Meteorology.....	106
Agriculture, Course in.....	102
Alumni Association .....	159
Ardent Spirits, Sale of Prohibited .....	44
Armory.....	16
Army Appointments.....	50
Arrival of Students.....	27
Astronomy, Course in.....	69
Art Department.....	111
Art Room.....	26
Arts, Courses in.....	54-57
Athletic Association.....	47
Bacteriology .....	106
Battalion, Roster of.....	51
Beneficiaries, Appointment of.....	37
Biology, Course in.....	77
Board, Cost of.....	42
Board for Ladies .....	43
Board of Trustees .....	4
Biological Laboratory.....	20
Botany, Course in.....	77

SUBJECT.	PAGE.
Branch Normal College.....	133
Buchanan Hall .....	13
Buildings .....	12
Calendar.....	3
Chapel Service.....	46
Chemical Laboratory.....	19
Chemistry, Course in.....	74
Christian Association, Young Men's .....	47
Civil Engineering, Course in.....	94, 97
Classification of Students.....	35
Courses, Description of.....	61
Courses, Selection of.....	34
Degrees, for Undergraduate Work.....	54
For Graduate Work.....	55
Schedule of Studies for.....	56
Requirement for the Master's.....	58
For C. E., M. E., E. E.....	59
Drawing, Instruction in.....	89, 95, 99
Drawing Room.....	26
Economics and Sociology.....	72
Electrical Engineering, Course in .....	97
Electrical Engineering, Short Course in .....	101
Electrical Laboratory.....	22
Elocution.....	107 ✓
English, Course in.....	63 ✓
Entomology, Course in.....	79
Ethics, Course in.....	87
Examinations.....	36
Examinations, Admission.....	27, 30
Examinations Outside of Fayetteville.....	31
Faculty.....	5
Fees and Expenses.....	42
Contingent.....	42
Graduation.....	42
In Music.....	111
In Art.....	113
Admission.....	42
Diploma.....	42
French, Course in.....	67
Garland Society Prizes.....	45
Geology, Course in .....	79

SUBJECT.	PAGE.
Geological and Biological Survey.....	46
German, Course in.....	66
Graduate Study and Degrees.....	58, 59
Graduation Fee.....	42, 60
Greek, Course in.....	62
History, Course in.....	70
Honors at Graduation .....	60
Horticultural Buildings.....	14
Horticulture, Course.....	104
Hospital.....	14
Hygiene.....	106
Instructors and Officers.....	6
Italian, Course in.....	68
Laboratories .....	19
Biological.....	20
Chemical.....	19
Mechanical Engineering .....	22
Electrical Engineering.....	22
Civil Engineering .....	24
Geological .....	21
Cement.....	24
Physical.....	20
Latin, Course in.....	61
Law School.....	129-132
Library .....	15
Literary Societies.....	45
Location of the University .....	11
Logic, Course in.....	87
Mathematics, Course in.....	69
Mathetian Prizes .....	45
Mechanical Engineering, Course in.....	88-91
Mechanic Arts Course.....	92
Medical School .....	121-128
Metallurgy, Instruction in.....	76
Military Department.....	48
Military Science, Course in .....	107
Mineralogy, Course in.....	79
Museum.....	17
Music.....	108
Non-resident Study.....	113
Normal Course.....	82

SUBJECT.	PAGE.
"Ozark" . . . . .	46
Pedagogy, Course in . . . . .	83, 85
Philosophy, Course in . . . . .	86
Physics, Course in . . . . .	77
Psychology, Course in . . . . .	86
Preparatory School . . . . .	115
Recitations, Number of . . . . .	35
Religious Exercises . . . . .	46
Romance Languages, Instruction in . . . . .	67-68
Schedule of Recitations . . . . .	Back of Book
Schedule of Studies for Degrees . . . . .	56
Science Hall . . . . .	13
Shops . . . . .	15
Shop Equipment . . . . .	24
Spanish, Course in . . . . .	68
Students—	
Arrival of . . . . .	27
Register of, Collegiate . . . . .	142-150
Register of, Preparatory . . . . .	151-158
Special . . . . .	35
Summary of . . . . .	150, 158
Surveying, Course in . . . . .	95
Thesis Requirements . . . . .	58-59
Trustees, Board of . . . . .	4
Tuition Fee . . . . .	42
Uniform, Cost of . . . . .	42
University Extension . . . . .	113
University Hall . . . . .	12
University, Location of . . . . .	11
University Magazine . . . . .	46
Vacation, Terms, etc . . . . .	3
Young Men's Christian Association . . . . .	47
Withdrawal . . . . .	43
Zoölogy, Course in . . . . .	78

# SCHEDULE OF COLLEGIATE RECITATIONS.

Figures to the left show the term during which the subject is studied; those to the right show the number of the course.

	1.....8:45—9:45	2.....9:45—10:45	3.....10:45—11:45	4.....11:45—12:45	5.....1—2	6.....2—3	7.....3—4	8.....4—5
FRESHMAN.	Chemistry 1, T., Th. Latin 1, M., W., F. Mathematics 1, M., W., F. M. E. 1, S.	English 1, M., T., Th. Latin 1, M., W., F. History 1, T., Th. Mathematics 2, W., F.	Mathematics 1, T., Th., F. English 1, M., W. German 1, T., Th., F. Geology 1, M., W. Pedagogy 1 and 2, M., F.	Greek 1, M., T., Th., F. Physics 1, T., Th. Biology 4, F. Geology 1, F.	Mathematics 1, T., W., F. English 1, Th. Agriculture 1, M., W., F. Horticulture 1, M., W., F.	English 1, M., T., Th. M. E. 2, M., T. Chemistry 1, W. Biology 2 and 3, M., T., Th. Physics 1, F.		Drill, M., T., W.
SOPHOMORE.	English 2, M., W., F. Chemistry 1, T., Th. History 2, M., W. Chemistry 2, M., F. 1. Chemistry 3, T., Th. Physics 2, M. 2. E. E. 2, F.	Economics 1, T., Th. Latin 2, M., W., F. Greek 2, T., Th. History 1, T., Th. German 2, M., W., F. Mathematics 4, M., T., Th. Chemistry 4, M., W., F. Pedagogy 3 and 4, M., F. Physics 2, F. C. E. 1 and 4, F. C. E. 2, M., T.	German 1, T., Th., F. French 1, T., Th., F. Geology 1, M., W. Agriculture 2, T., Th., F. Horticulture 2, T., Th., F. Mathematics 3, M. Mathematics 5, W., F.	Physics 1, T., Th. Biology 4, F. Mathematics 3, T., Th. Geology 2, M., W., F.	Greek 2, M., W., F. English 2, M., W., F. Mathematics 3, T., Th. Geology 2, M., W., F.	M. E. 1, T., F. C. E. 2, F.	2. E. E. 2, Th. C. E. 1, T. Chemstry 3, M., T., Th. Biology 6, T. Biology 2 and 3, M., T., Th. Physics 1, F. Chemistry 1, W.	Drill, M., T., W.
JUNIOR.	Latin 3, T., Th. History 2, M., W. Economics 7, M., W., F. Latin 4, M., W. German 3, M., F. Spanish 1, M., W., F. Mathematics 6, F. Biology 7, T., Th. Biology 8 and 9, M., W. Pedagogy 5 and 6, M., F.	Economics 1, T., Th. German 2, M., W., F. French 2, M., W., F. History 7, M. History 8 and 9, W., F. Economics 7 and 8, M., W., F. 1. Chemistry 14, T., Th. Biology 10, T., Th. E. E. 7, M., T., W. M. E. 3, Th., F. M. E. 4, M., T., W., Th. M. E. 6, S.	Greek 3, M., T., Th. History 3, M., T., Th. Economics 2, 3 & 4, M., T., Th. History 7, M. German 4, M., W. 1. Chemistry 14, F. 2. E. E. 1, Th., F. M. E. 5, M., T., W. C. E. 5, W., Th.	Latin 3, W. English 3, T., Th. English 4, M., F.	Latin 3, W. English 3, T., Th. French 3, T., Th. French 4, T., Th. History 4, M., Th. History 5, F. History 6, T. Biology 10, T., Th. Philosophy 2, T., Th. Philosophy 3, M., W., F. Mathematics 6, T., Th.	English 5, M., F. German 5, W. French 3, T., Th. Economics 5 and 6, M., F. Chemlsry 7, M., W., Th. M. E. 4 (a), M., T., W. M. E. 3, M., T. M. E. 1, Th., F. C. E. 6, F. E. E. 5, Th.	Math. 12 and 13, M., W., F...  French 5, T., Pedagogy 7, M., W., F....  Mathematics 7, W., Th., Mathematics 8, M., T., F....	Drill, M., T., W.
SENIOR.	Latin 5, T., Th., F. English 7, W. Spanish 2, T., Th. History 10 and 11, T., Th. Economics 9 and 10, T., Th. E. E. 8 and 9, M., T. E. E. 11, W., Th. C. E. 10, M., T., W., Th. M. E. 6, S.	Chemistry 10, T... 2. E. E. 10, Th., F. C. E. 14, W., Th. C. E. 11, W., Th. M. E. 13, W. M. E. 7, M., T., W. M. E. 10 or 11, M., T.	English 6, T., Th., F. C. E. 9, M., T. M. E. 12, Th., F. M. E. 8 or 9, Th., F.	Greek 4, T., Th., F. English 3, T., Th. English 4, M., F.	Philosophy 1, T., W., F. Spanish 2, F. Philosophy 4, M.	Philosophy 4, T., Th., F...  Pedagogy 8, M., W., F...		
				M. E. 7 and 13, T.	E. E. 6, Th., F. C. E. 16, Th. C. E. 15, F.			